



U.S. Department  
of Transportation

**National Highway  
Traffic Safety  
Administration**

400 Seventh Street, S.W.  
Washington, D.C. 20590

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If you requested NHTSA to query its database files in order to identify a specific crash, then that query was made using non-personal descriptors you provided for use in our search. This motor vehicle crash may have been identified from a data search and matches the general, non-personal descriptors you provided, but we cannot confirm that this is the specific crash report you requested.

If you have any questions with regard to the above procedures, please contact the Field Operations Branch, Crash Investigation Division, National Center for Statistics and Analysis at 202-366-4820. Again, please be advised that we cannot confirm that this is the case that you have specifically requested nor can we certify the information to be correct.

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AUTO SAFETY HOTLINE  
(800) 424-9393  
Wash. D.C. Area 366-0123

UMTRI - 96 - 8  
VERSION 05

UM-3721-98  
1998 Saturn SL

# In-depth Vehicle Occupant Report

The University  
of Michigan  
Transportation  
Research Institute



UMIVOR-UMIVOR-UMIVOR

## **DISCLAIMERS**

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points are coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the pre-crash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

Case Veh. (A): 1998 Saturn  
 Type: SL, 4-door sedan  
 Driver: 18-year-old female  
 CDC: 12-FDEW-1, 12-FREE-4

### Situation

(Slide 1, 2) The weather was clear, the roads were dry, and it was daylight. Case vehicle (A) was traveling east at a driver-estimated speed of 89 kph (55 mph) on a gravel road in a rural area. The driver was changing the radio station and was not paying attention to the road. (Slide 3) The vehicle exited the north edge of the roadway, and entered a deep water-filled ditch with its front end. (Slide 4) It traveled 4 meters off the road before striking a tree with its right-front corner. Case vehicle (A) came to rest with its front-end against the tree, facing east.

(Slide 5, 6, 7, 8, 9) Using the WinSmash accident-reconstruction program and c-values measured for case vehicle (A), the following Equivalent Barrier Speed was calculated for the first impact:

Vehicle	Variable	Calculated Velocity Change - kph (mph)		
		Total	Longitudinal	Latitudinal
Case Vehicle (A)	EBS	17 (10)	-17 (-10)	0 (0)

### Exterior Damage

(Slide 10) Damage to the front of case vehicle (A) was moderate with a maximum crush of 12 cm to the left front bumper corner. (Slide 11) The direct damage length was 131 cm and extended across the entire front, including the radiator and undercarriage. (Slide 12) The front bumper was crushed, the grille was damaged, and both headlight assemblies were deformed, but not broken. The hood was deformed, but there was no

damage to the hood latch or hood hinges. (Slide 13) The rear edge of the hood was elevated, but it did not contact the windshield. (Slide 14, 15) The windshield was damaged from contact with tree branches and thick brush. (Slide 16) On the left side, the front fender was deformed. There was no other damage to the left side and no change in the left wheelbase.

(Slide 17) The second impact to the right-front corner of case vehicle (A) was moderate with a maximum crush of 90 cm extending down the right side. (Slide 18) The direct damage began at the right-front bumper corner and extended 9 cm across the front. This impact damaged the right-front fender and right-front wheel. (Slide 19) There was no other damage to the right side and no change in the right wheelbase.

#### Interior Damage

(Slide 20, 21) This vehicle is equipped with steering-wheel and passenger frontal-impact airbags which deployed. (Slide 22, 23) There was no damage to the steering-wheel rim, and no rotation of the steering column. (Slide 24, 25, 26) There was no damage to the upper or mid portions of the instrument panel, center dash area, or glove compartment. (Slide 27) The center vertical console was damaged, (slide 28) and the lower portion of the instrument panel was contacted by the driver. There was no other interior damage. The following intrusion was noted and measured:

Location	Component	Distance (cm)	Direction
Front right (slide 29)	Toepan	5	to rear

#### Occupant Kinematics and Injuries

(Slide 30) The 18-year-old female driver was wearing the 3-point belt and the airbag deployed. She reportedly had the seat in the middle seat-track position, and the tilt steering wheel in the lower position. (Slide 31) The shoulder-belt anchor point was

adjusted to the lowest position on the B-pillar. During the frontal impacts the driver continued forward into the belts and deploying airbag. (Slide 32) Her face contacted the deploying airbag, as evidenced by makeup on the airbag skin, resulting in an abrasion to her chin, and her sunglasses contacted her face, resulting in a laceration to her right forehead. She sustained an abrasion to the left side of her neck from the shoulder portion of the 3-point belt, and cervical strain from impact forces. She sustained abrasions to her right anterior forearm and right anterior wrist from the deploying airbag. She also sustained lacerations across her right knuckles, probably from the airbag flinging her hand into the vehicle interior. (Slide 33) Her left knee contacted the lower portion of the instrument panel, as indicated by scuff marks to the left of the steering column, resulting in a contusion to her left knee. (Slide 34) In addition, she sustained an abrasion to her left upper thigh, probably from contact with the lower portion of the steering column, or possibly from the deploying airbag.

(Slide 35) The attached table summarizes the injury information for the restrained driver.

Occupant: Driver  
 Restraints: 3-point belt worn, airbag deployed

Age: 18 years  
 Stature: 163 cm (5 ft 4 in)

Sex: Female  
 Mass: 49 kg (108 lb)

Injury Description	A.I.S.	Injury Source		
		Definite	Probable	Possible
Cervical strain	1	Impact forces		
Laceration, right forehead	1	Airbag (sunglasses)		
Abrasion, chin	1	Airbag		
Abrasion, left neck	1	3-point belt (shoulder portion)		
Abrasions, right anterior forearm	1	Airbag		
Abrasions, right anterior wrist	1	Airbag		
Lacerations, across right knuckles	1		Vehicle interior (airbag fling)	
Abrasion, left upper thigh	1		Steering column	Airbag
Contusion, left knee	1	Lower instrument panel		
<u>Maximum A.I.S. Level</u>	<u>1</u>			
<u>Injury Severity Score</u>	<u>2</u>			

ADMINISTRATIVE AD-1

30

1

$$\begin{array}{ccccccc} & & & & 1 & & \\ \hline 0 & 3 & 7 & 2 & 1 & & \\ \hline & 3 & & & & & 7 \end{array}$$
$$\begin{array}{r} 3 \\ \hline 16 \end{array} \quad \begin{array}{r} 15 \\ 5 \\ \hline \end{array}$$

4

10

A      D

UM - 37 21 - 98

0    1

0      5  
13

28 37

99

38 39

38 39

38 39

[REDACTED], 98

[REDACTED]

██████████, MICHIGAN

**SLIDES**

## POLAROIDS

[REDACTED]

[REDACTED] E

[REDACTED]



<b>TIME</b>		<b>ENVIRONMENTAL CONDITIONS</b>	
DATE OF COLLISION <u>          </u> / <u>98</u>		<b>CONSTRUCTION ZONE</b>	<u>0</u>
		(0) NO (1) YES (9) UNKNOWN	<u>31</u>
HOUR OF COLLISION <u>1300</u> (24 HOUR CLOCK)		<b>ROAD ALIGNMENT VERTICAL PLANE</b>	<u>1</u>
		(1) LEVEL (2) CREST OF HILL (3) SLOPE (2%) (4) BOTTOM OF HILL (9) UNKNOWN	<u>32</u>
<b>LOCATION</b>		<b>ROAD ALIGNMENT HORIZONTAL PLANE</b>	<u>1</u>
STATE: <u>MICHIGAN</u>		(1) STRAIGHT (2) CURVE (3) T - SHAPED (4) Y - SHAPED (7) OTHER: _____ (9) UNKNOWN	<u>33</u>
STATE FIPS CODE	<u>26</u>	<b>SURFACE COVERING</b>	<u>10</u>
AREA		(10) DRY  (21) WATER - DAMP (22) WATER - WET (23) WATER - PUDDLED (29) WATER - AMOUNT UNKNOWN  (31) SNOW - LOOSE (32) SNOW - PACKED (39) SNOW - CONDITION UNKNOWN  (41) ICE (51) SLUSH (61) SPILLED GRAVEL (71) OTHER: _____ (99) UNKNOWN	<u>34</u>
(1) URBAN (2) RURAL (9) UNKNOWN	<u>2</u>	<b>VISIBILITY LIMITATION (FOR CASE VEHICLE)</b>	<u>0</u>
<b>ENVIRONMENTAL CONDITIONS</b>		(0) NONE (1) CLOUDY/DARK (2) FOG (3) SMOKE (4) WINDSHIELD CONDITION (5) GLARE (6) RAIN (7) OTHER: _____ (8) ICE/SNOW (9) UNKNOWN	<u>36</u>
LIMITED-ACCESS HIGHWAY	<u>0</u>	<b>VISIBILITY OBSTRUCTION (FOR CASE VEHICLE)</b>	<u>0</u>
(0) NO (1) YES (9) UNKNOWN	<u>26</u>	(0) NONE (1) BUILDING (2) SIGN (3) VEGETATION (E.G. BUSHES, SHRUBS) (4) TREE (5) HILL OR CURVE IN ROAD (6) VEHICLE IN TRANSPORT (7) OTHER: _____ (8) PARKED VEHICLE (9) UNKNOWN	<u>37</u>
ROAD, TOTAL TRAFFIC LANES (FOR CASE VEHICLE)	<u>2</u>		
(1) 1-LANE (2) 2-LANES (3) 3-LANES (4) 4 OR MORE LANES (5) DIVIDED, 4 OR MORE LANES (6) PARKING LOT/DRIVEWAY (7) OTHER: _____ (9) UNKNOWN	<u>27</u>		
INTERSECTING RD, TOTAL LANES	<u>8</u>		
CHOOSE FROM ABOVE LIST, OR	<u>28</u>		
(B) NOT APPLICABLE			
<b>TYPE OF ROAD SURFACE</b>	<u>3</u>		
(1) ASPHALT (2) CONCRETE (3) GRAVEL (4) MORE THAN ONE (CIRCLE EACH) (7) OTHER: _____ (9) UNKNOWN	<u>29</u>		
<b>ROAD DEFECTS</b>	<u>0</u>		
(0) NO (1) YES (9) UNKNOWN	<u>30</u>		



## GENERAL INFORMATION GI-3

## CRASH DETAILS

## CASE VEHICLE AND OBJECT

- (0) NO  
(1) YES  
(9) UNKNOWN

1  
45

## CASE VEHICLE ROLLOVER

- (0) NO ROLLOVER  
(1) YES, FIRST EVENT  
(2) YES, SUBSEQUENT EVENT  
(3) YES, SEQUENCE UNKNOWN  
(9) UNKNOWN

0  
46

CASE VEHICLE RAN OFF ROADWAY  
(BEFORE FIRST IMPACT)

- (0) NO  
(1) YES  
(9) UNKNOWN

1  
47

MOVING CASE VEHICLE AND  
CONTACTED MOVING VEHICLE

- (0) NO  
(1) YES  
(9) UNKNOWN

0  
48

CASE VEHICLE AND  
CONTACTED STOPPED VEHICLE

- (0) NO  
(1) YES  
(9) UNKNOWN

0  
49

STOPPED CASE VEHICLE AND  
CONTACTED VEHICLE

- (0) NO  
(1) YES  
(9) UNKNOWN

0  
50

TOTAL NUMBER  
OF VEHICLES CONTACTED  
BY CASE VEHICLE IN CRASH

- (8) 8 OR MORE  
(9) UNKNOWN

0  
51

ANY FIRE IN THIS CRASH  
(NOT JUST CASE VEHICLE)

- (0) NO  
(1) YES  
(9) UNKNOWN

0  
52

HIGHEST POLICE INJURY  
SEVERITY CODE IN CRASH  
(NOT JUST CASE VEHICLE)

- (0) O - NO INJURY  
(1) C - POSSIBLE INJURY  
(2) B - NON-INCAPACITATING INJURY  
(3) A - INCAPACITATING INJURY  
(4) K - FATAL  
(5) INJURED, SEVERITY UNKNOWN  
(6) DIED PRIOR TO ACCIDENT  
(7) NON-FATAL INJURY  
SEVERITY UNKNOWN  
(9) UNKNOWN

1  
53

## DRIVER IMPAIRMENT

DRIVER ALCOHOL INVOLVEMENT  
(CASE VEHICLE)

- (0) NONE  
(1) YES  
(9) UNKNOWN/NOT REPORTED/  
NO DRIVER

0  
54

DRIVER ALCOHOL BAC  
(CASE VEHICLE)

- (80) NO TEST  
(90) CHEMICAL TESTS, NO RESULTS  
(95) AUTOPSY, NO RESULTS  
(99) UNKNOWN

80  
55 56

WAS THERE MENTION OF DRIVER  
IMPAIRMENT FOR CASE VEHICLE?

- (0) NO  
(1) YES  
(9) UNKNOWN

0  
57

## LIST IMPAIRMENTS MENTIONED:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Post - Crash Detail

MANNER CASE VEHICLE  
LEFT SCENE

- (1) DRIVEN  
(2) TOWED DUE TO DAMAGE  
(3) TOWED, NOT DUE TO DAMAGE  
(4) TOWED, REASON UNKNOWN  
(9) UNKNOWN

2  
58

# ACCIDENT SCHEMATIC

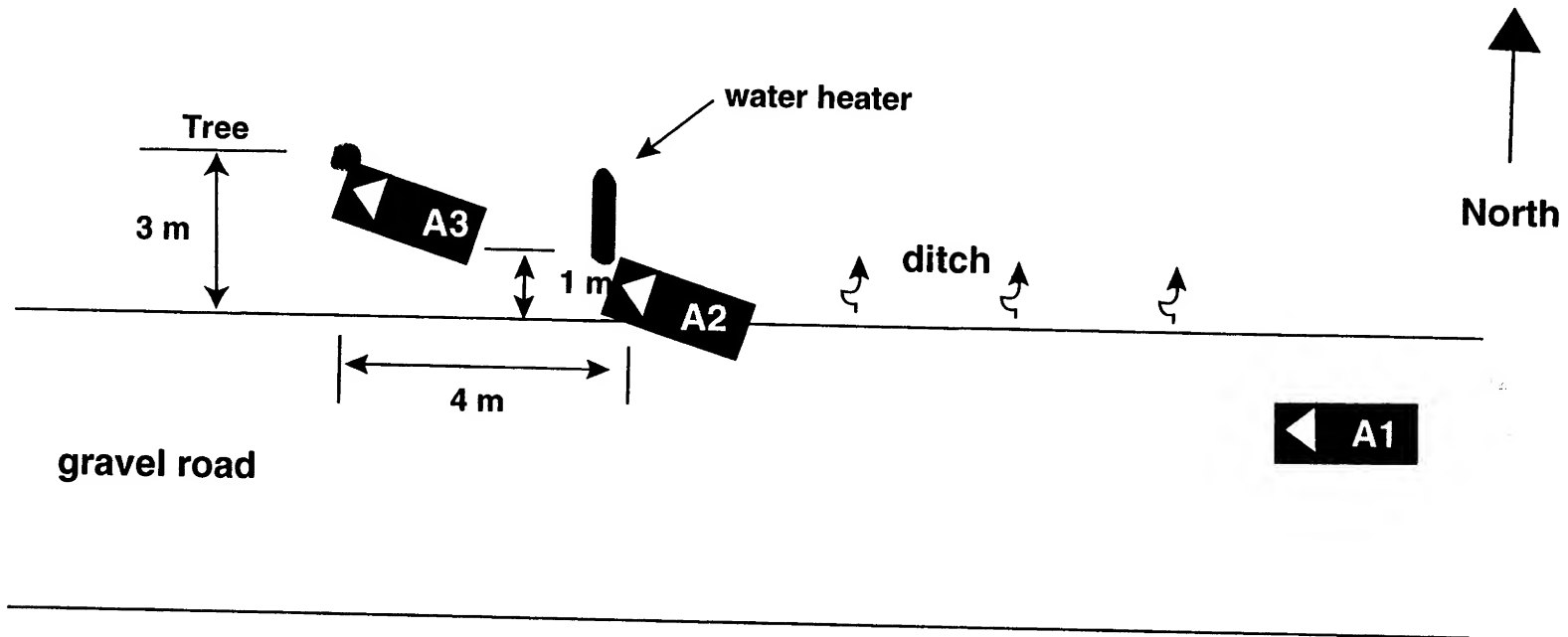
ACCIDENT DESCRIPTION: CASE VEHICLE (A) WAS TRAVELING  
EAST AT A DRIVER-ESTIMATED SPEED OF  
89 KPH (55 MPH) ON A GRAVEL ROAD IN A  
RURAL AREA. THE DRIVER WAS NOT PAYING ATTENTION, LEFT THE  
NORTH EDGE OF THE ROAD, ENTERED A DEEP DITCH AND STRUCK A  
TREE.

CASE VEHICLE (A): 1998 SATURN SL  
 OTHER VEHICLE (B): \_\_\_\_\_  
 THIRD VEHICLE (C): \_\_\_\_\_

Q  
1



NORTH



Duplicate columns 1-8  
from the previous card.

Module Q V Format 0 1  
9 10 11 12

OTHER VEHICLE OV-1

MAKE: \_\_\_\_\_

CARGO: \_\_\_\_\_

MODEL: \_\_\_\_\_

VIN

13

29

MANUFAC/BODY CODE

30

34

MAKE/MODEL CODE

38

MODEL YEAR

1 9

VEHICLE MASS (kg)

41

46

IF SEPARATE REPORT WAS MADE,  
GIVE VEHICLE NUMBER

NUMBER OF OCCUPANTS  
(ENTER 9'S IF UNKNOWN)

49

TRAVELING SPEED (km/h)

52

- (000) PARKED OR STOPPED  
(995) JUST STARTING UP  
(996) BACKING UP  
(997) SPEED NOT EXCESSIVE (BUT UNKNOWN)  
(998) SPEED EXCESSIVE (BUT UNKNOWN)  
(999) UNKNOWN

HIGHEST POLICE INJURY SEVERITY  
CODE FOR THIS VEHICLE

- (0) O - NO INJURY  
(1) C - POSSIBLE INJURY  
(2) B - NON-INCAPACITATING INJURY  
(3) A - INCAPACITATING INJURY  
(4) K - FATAL  
(5) INJURED, SEVERITY UNKNOWN  
(6) DIED PRIOR TO ACCIDENT  
(7) NON-FATAL INJURY  
SEVERITY UNKNOWN  
(8) UNOCCUPIED VEHICLE  
(NOT APPLICABLE)  
(9) UNKNOWN

VEHICLE TYPE

PASSENGER VEHICLE

- (02) LARGE  
(03) LIMOUSINE  
(17) PICKUP CAR  
(20) UNKNOWN PASSENGER VEHICLE BODY  
(24) SUB-MINI  
(25) MINI  
(26) SUB-COMPACT  
(27) COMPACT  
(28) INTERMEDIATE  
(29) FULL

54

55

MULTIPURPOSE PASSENGER VEHICLE

- (14) SMALL UTILITY (WHEELBASE LESS THAN 107',  
E.G. JEEP, BRONCO)  
(15) LARGE UTILITY (WHEELBASE MORE THAN 107',  
E.G. PANEL TRUCK, SUBURBAN)  
(16) PICKUP TRUCK WITH CANOPY/SHELL COVER  
(17) PICKUP CAR WITH CANOPY/SHELL COVER  
(21) MOTOR HOME  
(22) PICKUP TRUCK WITH SLIDE-IN CAMPER  
(23) PICKUP CAR WITH SLIDE-IN CAMPER  
(31) CHASSIS-MOUNTED CAMPER

TRUCK

- (11) VAN  
(12) PICKUP TRUCK  
(13) UNKNOWN LIGHT TRUCK  
(15) LARGE UTILITY (E.G. PANEL TRUCK, SUBURBAN)  
(16) PICKUP TRUCK WITH CANOPY/SHELL COVER  
(22) PICKUP TRUCK WITH SLIDE-IN CAMPER  
(30) UNKNOWN TRUCK TYPE  
(31) CHASSIS-MOUNTED CAMPER  
(33) DELIVERY VAN (WALK-IN)  
(34) STRAIGHT TRUCK  
(35) TRUCK-TRACTOR (BOBTAIL)  
(36) CHASSIS-CAB  
(37) UNKNOWN HEAVY TRUCK  
(38) TRACTOR & SEMI-TRAILER (SEMI)  
(39) TRUCK (OR SEMI) & FULL TRAILER(S)

BUS

- (40) UNKNOWN BUS TYPE  
(41) SCHOOL BUS  
(42) INTERCITY BUS (BETWEEN CITIES)  
(43) TRANSIT BUS (INTRACITY)  
(44) STREETCAR (ON TRACKS)  
  
(68) TRAIN (CARS)  
(69) LOCOMOTIVE (ENGINE, SWITCHER)

(99) UNKNOWN

WHEELBASE (cm)

(999) UNKNOWN

56 57 58

Duplicate columns 1-8  
from the previous card.Module 0 V Format 0 2  
9 10 11 12

OTHER VEHICLE OV-2

## ORIGINAL SPECIFICATIONS

Wheelbase	_____ cm	Front Overhang	_____ cm
			22 _____ 24
Curb Weight	_____ kg	Rear Overhang	_____ cm
			25 _____ 27
Average Track Width	_____ cm	Undeformed End Width (UEW)	_____ cm
	13 _____ 15		28 _____ 30
Overall Length	_____ cm	Engine Displacement	_____ L
	16 _____ 18		31 _____ 32
Overall Width (OAW)	_____ cm	Engine: # of Cylinders	_____
	19 _____ 21		33 _____ 34

## VEHICLE DAMAGE

NOT APPLICABLE

## FRONTAL CRASH OVERLAP

Round up for .5. 98 = 98% or more  
Enter % overlap or "99" for missing or N/A.

Direct Damage Length (DDL) \_\_\_\_\_ cm  
35 \_\_\_\_\_ 37

Front-End Overlap (Percent) =  $\frac{DDL}{UEW}$  \_\_\_\_\_ %  
38 39

Vehicle Overlap (Percent) =  $\frac{DDL + 1/2 (OAW - UEW)}{OAW}$  \_\_\_\_\_ %  
40 41

Duplicate columns 1-8  
from the previous card.Module V D Format 0 1  
9 10 11 12

## VEHICLE DESCRIPTION VD-1

MAKE: SATURN  
MODEL: SL 4-DOOR SEDANCARGO: NONE

VIN

13

29

MANUFAC/BODY CODE

11827  
30 34

MAKE/MODEL CODE

3705  
38

MODEL YEAR

1998

VEHICLE MASS (kg)

001055  
46

ODOMETER (km)

2020  
(ENTER 9'S IF UNKNOWN) 003250  
(ENTER 8'S IF ELECTRONIC) 47 52NUMBER OF OCCUPANTS  
(ENTER 9'S IF UNKNOWN)01  
54

TRAVELING SPEED (km/h)

089  
57(000) PARKED OR STOPPED  
(995) JUST STARTING UP  
(996) BACKING UP  
(997) SPEED NOT EXCESSIVE (BUT UNKNOWN)  
(998) SPEED EXCESSIVE (BUT UNKNOWN)  
(999) UNKNOWN  
55

## STOLEN VEHICLE

- (0) NO
- 
- (1) YES
- 
- (8) NOT COLLECTED
- 
- (9) UNKNOWN

8  
60

## BODY STRUCTURE

- (1) BODY & FRAME
- 
- (2) UNITIZED
- 
- (3) INTEGRAL-STUB FRAME
- 
- (4) BODY & PLATFORM FRAME
- 
- (E.G. VW BUG)
- 
- (5) PARTIALLY UNITIZED
- 
- (7) OTHER: \_\_\_\_\_
- 
- (9) UNKNOWN

2  
61

## TRANSMISSION

- (0) NONE
- 
- (1) AUTOMATIC
- 
- (2) MANUAL
- 
- (9) UNKNOWN

2  
62

## VEHICLE TYPE

## PASSENGER VEHICLE

- (11) 2-DOOR HARDTOP (NO UPPER B-PILLAR)
- 
- (12) 2-DOOR SEDAN OR COUPE
- 
- (ANY UPPER B-PILLAR)
- 
- (13) 4-DOOR HARDTOP
- 
- (14) 4-DOOR SEDAN
- 
- (15) STATION WAGON
- 
- (16) CONVERTIBLE
- 
- (18) OTHER PASS. VEH.: \_\_\_\_\_
- 
- (19) PASSENGER VEHICLE, TYPE UNKNOWN

14  
58 59

## MULTIPURPOSE PASSENGER VEHICLE

- (21) SMALL UTILITY (E.G. JEEP, SCOUT, BRONCO)
- 
- (22) LARGE UTILITY (E.G. PANEL TRUCK, SUBURBAN)
- 
- (23) VAN, SIZE UNKNOWN
- 
- (24) VAN, SMALL (MINI)
- 
- (25) VAN, LARGE
- 
- (29) MPV, TYPE UNKNOWN
- 
- (30) MOTOR HOME

## TRUCK

- (31) PICKUP TRUCK, UNKNOWN
- 
- (32) PICKUP TRUCK, SMALL (DOWNSIZED)
- 
- (33) PICKUP TRUCK, LARGE
- 
- (99) UNKNOWN

LOCATION OF TRANSMISSION  
SELECTOR LEVER

- (1) FLOOR
- 
- (2) CONSOLE
- 
- (3) COLUMN
- 
- (7) OTHER: \_\_\_\_\_
- 
- (9) UNKNOWN

2  
63

## STEERING

- (1) POWER
- 
- (2) MANUAL
- 
- (9) UNKNOWN

1  
64

## BRAKES

- (1) POWER
- 
- (2) MANUAL
- 
- (9) UNKNOWN

1  
65

## VEHICLE DESCRIPTION VD-2

## TYPE OF BRAKES

- (1) DRUM, ALL WHEELS  
 (2) DISC, FRONT WHEELS  
 (3) DISC, ALL WHEELS  
 (9) UNKNOWN

2  
 66

WHEELBASE (cm)  
 (999) Unknown

260  
 74 75 76

## BRAKE ANTI-LOCK DEVICE

- (0) NONE INSTALLED  
 (1) TWO-WHEEL  
 (2) FOUR-WHEEL  
 (7) EQUIPPED, UNKNOWN WHEELS  
 (9) UNKNOWN

2  
 67

PLASTIC ANTI-LACERATIVE  
 INNER LAYER GLASS EQUIPPED

- (0) NONE  
 (1) WINDSHIELD  
 (2) WINDSHIELD AND SIDE  
 (7) OTHER  
 (9) UNKNOWN

0  
 77

## AIR CONDITIONING IN VEHICLE

- (0) NO  
 (1) YES  
 (8) NOT COLLECTED  
 (9) UNKNOWN

8  
 68

## TYPE OF DRIVE

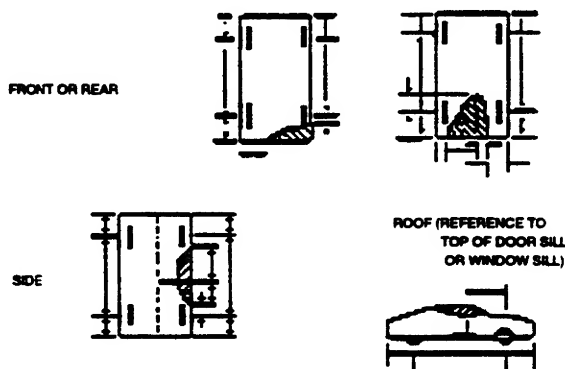
- (1) REAR WHEEL  
 (2) FRONT WHEEL  
 (3) FOUR WHEEL  
 (4) ALL WHEEL DRIVE  
 (9) UNKNOWN

2  
 69

## FIELD INVESTIGATOR INSTRUCTIONS:

1. INDICATE CRUSHED AREAS BY OUT-  
LINING NEW PERIMETER OF VEHICLE  
AND SHADING THE DAMAGED AREAS ON  
THE LARGE SKETCH ON PAGE VD-3.  
USE AS MANY SKETCHES AS NECESSARY  
TO COMPLETELY DESCRIBE THE DAMAGE.
2. ENTER THE DIMENSIONS ON THE  
 SKETCH(ES) MEASURED TO THE POINT  
 OF MAXIMUM PENETRATION BY THE  
 OBJECT(S) CONTACTED. USE THE  
 EXAMPLES BELOW AS A GUIDE.
3. ENTER THE THREE DIMENSIONS TO THE  
 CENTER OF THE WHEELS (WHEELBASE,  
 FRONT AND REAR OVERHANGS) ON BOTH  
 SIDES OF THE CAR.
4. ADD OTHER DIMENSIONS AS NECESSARY  
 TO COMPLETELY DESCRIBE THE DAMAGE.

## EXAMPLES:



## DUAL REAR WHEELS

- (0) NO  
 (1) YES  
 (9) UNKNOWN

0  
 70

ORIGINAL TYPE  
 OF RESTRAINT SYSTEM

- (1) ACTIVE BELT  
 (2) PASSIVE BELT  
 (3) AIRBAG  
 (4) KNEE BOLSTERS  
 (7) OTHER: \_\_\_\_\_  
 (8) NOT APPLICABLE (NOT EQUIPPED)  
 (9) UNKNOWN

3  
 71

## EQUIPPED WITH ROLL BAR

- (0) NO  
 (1) YES  
 (9) UNKNOWN

0  
 72

## TYPE OF ROOF

- (0) NONE  
 (1) SOLID  
 (2) T-TOP CLOSED  
 (3) T-TOP OPEN  
 (4) SUN ROOF CLOSED  
 (5) SUN ROOF OPEN  
 (6) CONVERTIBLE CLOSED  
 (7) CONVERTIBLE OPEN  
 (8) OTHER: \_\_\_\_\_  
 (9) UNKNOWN

1  
 73



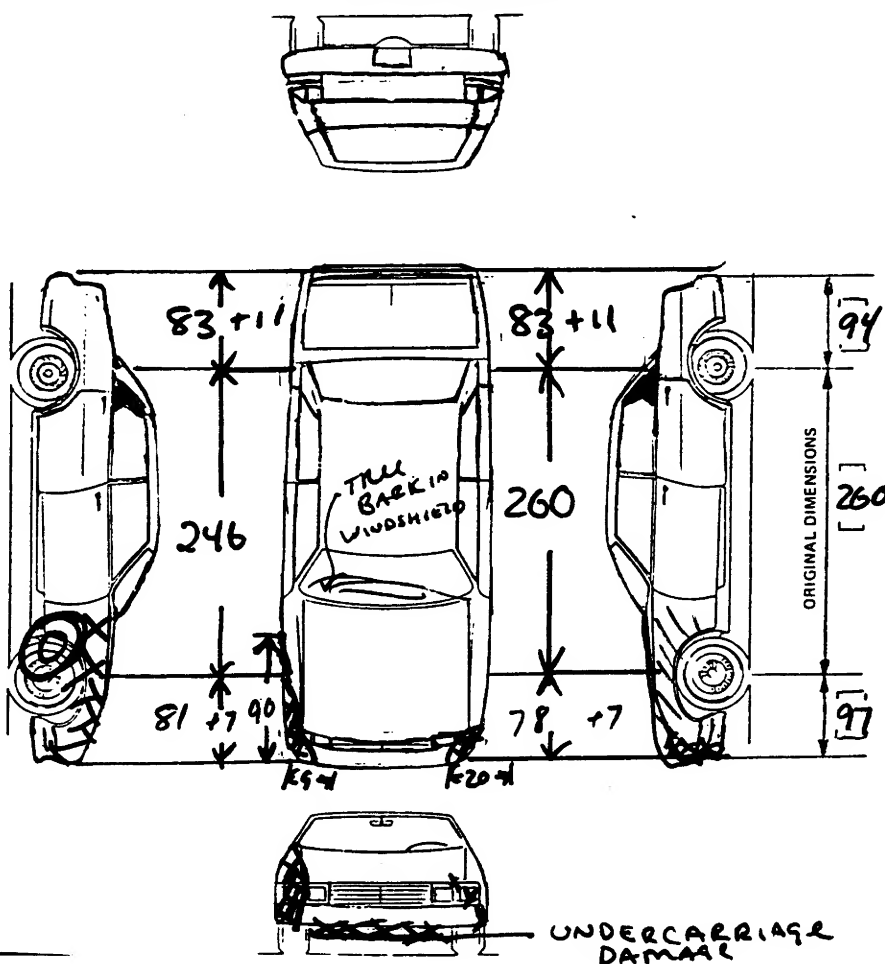
Duplicate columns 1-8  
from the previous card.Module V D Format 0 2  
9 10 11 12

## VEHICLE DESCRIPTION VD-3

## ORIGINAL SPECIFICATIONS

Wheelbase	<u>260</u> cm	Front Overhang	<u>097</u> cm
			<sub>22</sub> <sub>24</sub>
Curb Weight	<u>1055</u> kg	Rear Overhang	<u>094</u> cm
			<sub>25</sub> <sub>27</sub>
Average Track Width	<u>143</u> cm	Undeformed End Width (UEW)	<u>152</u> cm
	<sub>13</sub> <sub>15</sub>		<sub>28</sub> <sub>30</sub>
Overall Length	<u>449</u> cm	Engine Displacement	<u>1.8</u> L
	<sub>16</sub> <sub>18</sub>		<sub>31</sub> <sub>32</sub>
Overall Width (OAW)	<u>170</u> cm	Engine: # of Cylinders	<u>04</u>
	<sub>19</sub> <sub>21</sub>		<sub>33</sub> <sub>34</sub>

## VEHICLE DAMAGE



## FRONTAL CRASH OVERLAP

Round up for .5. 98 = 98% or more  
Enter % overlap or "99" for missing or N/A.

Direct Damage Length (DDL) 999 cm

Front-End Overlap (Percent) =  $\frac{DDL}{UEW}$

99 %

Vehicle Overlap (Percent) =  $\frac{DDL + 1/2 (OAW - UEW)}{OAW}$

99 %

Duplicate columns 1-8 from the previous card.           Module <u>D</u> <u>A</u> Format <u>0</u> <u>2</u> 9   10           11   12		DAMAGE   DA-1		
<b>PRIMARY</b>  EVENT NUMBER  IMPACT SPEED (km/h)  ESTIMATED BY  CRUSH (cm)  CDC #1  CDC #2	CASE VEHICLE PRIMARY CDC	CONTACTED VEHICLE ASSOCIATED CDC		
	$\begin{array}{r} 1 \\ \hline 13 \\ 999 \\ \hline 14 \quad 15 \quad 16 \end{array}$		DITCH	
	$\begin{array}{r} 1 \\ \hline 17 \\ 012 \\ \hline 18 \quad 19 \quad 20 \end{array}$		$\begin{array}{r} 1 \\ \hline 38 \\ 998 \\ \hline 39 \quad 40 \quad 41 \end{array}$	
	$\begin{array}{r} 12.FDEW.1 \\ \hline 21 \qquad \qquad \qquad 27 \end{array}$		$\begin{array}{r} 98.0000.0 \\ \hline 42 \qquad \qquad \qquad 48 \end{array}$	
	$\begin{array}{r} 98.0000.0 \\ \hline 28 \qquad \qquad \qquad 34 \end{array}$		$\begin{array}{r} 98.0000.0 \\ \hline 49 \qquad \qquad \qquad 55 \end{array}$	
<b>SECONDARY</b>  EVENT NUMBER  IMPACT SPEED (km/h)  ESTIMATED BY  CRUSH (cm)  CDC #1  CDC #2	CASE VEHICLE SECONDARY CDC	CONTACTED VEHICLE ASSOCIATED CDC		
	$\begin{array}{r} 2 \\ \hline 13 \\ 999 \\ \hline 14 \quad 15 \quad 16 \end{array}$		TRU	
	$\begin{array}{r} 1 \\ \hline 17 \\ 090 \\ \hline 18 \quad 19 \quad 20 \end{array}$		$\begin{array}{r} 1 \\ \hline 38 \\ 998 \\ \hline 39 \quad 40 \quad 41 \end{array}$	
	$\begin{array}{r} 12.FREE.4 \\ \hline 21 \qquad \qquad \qquad 27 \end{array}$		$\begin{array}{r} 98.0000.0 \\ \hline 42 \qquad \qquad \qquad 48 \end{array}$	
	$\begin{array}{r} 98.0000.0 \\ \hline 28 \qquad \qquad \qquad 34 \end{array}$		$\begin{array}{r} 98.0000.0 \\ \hline 49 \qquad \qquad \qquad 55 \end{array}$	
<b>CODES</b>				
EVENT NUMBER	IMPACT SPEED ESTIMATOR	CRUSH		
(8) NOT APPLICABLE (9) UNKNOWN	(1) INVESTIGATOR (2) DRIVER (3) POLICE (4) "CRASH" PROGRAM (5) OTHER COMPUTER PROGRAM SPECIFY: _____ (7) OTHER: _____ (8) NOT APPLICABLE (NO VEHICLE/NO IMPACT)	(998) NOT APPLICABLE (NO VEHICLE/DAMAGE) (999) UNKNOWN		
IMPACT SPEED		CDC		
(998) NOT APPLICABLE (999) UNKNOWN		(9800000) NOT APPLICABLE (9900000) UNKNOWN		

## MAXIMUM SHEET METAL CRUSH

(cm) (999) UNKNOWN

FRONT 012  
13 15RIGHT SIDE 999  
16 18REAR 999  
19 21LEFT SIDE 999  
22 24ROOF 999  
25 27OTHER 999  
28 30CHRONOLOGICAL SEQUENCE  
OF DAMAGE/INJURY PRODUCING CRASH EVENTS  
FOR CASE VEHICLENOTE: IF CHRONOLOGICAL ORDER  
IS UNKNOWN, EVENT  
ORDER IS OPTIONALDO YOU KNOW THIS TABLE  
TO BE IN CHRONOLOGICAL ORDER? 1

31

(0) NO  
(1) YES

EVENT NUMBER	IMPACT LOCATION (1) ON ROADWAY (2) SHOULDER/MEDIAN/GORE (3) ON ROADSIDE (4) OUTSIDE ROADSIDE RIGHT-OF-WAY (5) OTHER (6) OFF ROADWAY, LOC. UNK. (9) UNKNOWN	IMPACT CONFIGURATION FOR CODES, SEE TABLE ON PAGE DA-3.	OBJECT/VEHICLE CONTACTED FOR CODES, SEE TABLE ON PAGE DA-4.
# 1	<u>4</u> 32	<u>17</u> 34	<u>78</u> 36
#2	<u>4</u> 37	<u>17</u> 39	<u>77</u> 41
#3	— 42	— 44	— 46
#4	— 47	— 49	— 51
#5	— 52	— 54	— 56
#6	— 57	— 59	— 61
#7	— 62	— 64	— 66

CODES FOR  
IMPACT CONFIGURATIONFRONT OF CASE VEHICLE

- (11) AND FRONT OF CONTACTED VEHICLE
- (13) AND SIDE OF CONTACTED VEHICLE
- (14) AND REAR OF CONTACTED VEHICLE
- (16) ENDSWIPED BY CONTACTED VEHICLE
- (17) AND OBJECT
- (19) AND UNKNOWN OTHER VEHICLE CONFIGURATION

LEFT SIDE OF CASE VEHICLE

- (21) AND FRONT OF CONTACTED VEHICLE (TYPE T)
- (22) AND FRONT OF CONTACTED VEHICLE (TYPE L)
- (23) AND SIDE OF CONTACTED VEHICLE (NOT SIDESWIPE)
- (24) AND REAR OF CONTACTED VEHICLE (TYPE T)
- (25) AND REAR OF CONTACTED VEHICLE (TYPE L)
- (26) SIDESWIPED BY CONTACTED VEHICLE
- (27) AND OBJECT
- (29) AND UNKNOWN OTHER VEHICLE CONFIGURATION

REAR OF CASE VEHICLE

- (31) AND FRONT OF CONTACTED VEHICLE
- (33) AND SIDE OF CONTACTED VEHICLE
- (34) AND REAR OF CONTACTED VEHICLE
- (36) ENDSWIPED BY CONTACTED VEHICLE
- (37) AND OBJECT
- (39) AND UNKNOWN OTHER VEHICLE CONFIGURATION

RIGHT SIDE OF CASE VEHICLE

- (41) AND FRONT OF CONTACTED VEHICLE (TYPE T)
- (42) AND FRONT OF CONTACTED VEHICLE (TYPE L)
- (43) AND SIDE OF CONTACTED VEHICLE (NOT SIDESWIPE)
- (44) AND REAR OF CONTACTED VEHICLE (TYPE T)
- (45) AND REAR OF CONTACTED VEHICLE (TYPE L)
- (46) SIDESWIPED BY CONTACTED VEHICLE
- (47) AND OBJECT
- (49) AND UNKNOWN OTHER VEHICLE CONFIGURATION

## OTHER

- (57) VEHICLE TO OBJECT
- (58) VEHICLE TO VEHICLE
- (59) VEHICLE TO VEHICLE, CONFIGURATION UNKNOWN

## ROLLOVER

- (61) LESS THAN 360°
- (62) 360° OR MORE
- (69) DETAILS UNKNOWN

## UNKNOWN

- (99) IMPACT TYPE UNKNOWN

## CODES FOR VEHICLE/OBJECT CONTACTED

## VEHICLE/OBJECT GROUPS

- (00) NO OBJECT
- (01) - (39) PASSENGER VEHICLE & TRUCK
- (40) - (69) OTHER VEHICLE
- (70) - (76) PEDESTRIAN & ON-ROADWAY OBJECT
- (77) - (97) OFF-ROADWAY OBJECT

- (98) OTHER (DESCRIBE)
- (99) UNKNOWN

## PASSENGER VEHICLE

- (02) LARGE
- (03) LIMOUSINE
- (17) PICKUP
- (20) UNKNOWN PASSENGER VEHICLE BODY
- (24) SUB-MINI
- (25) MINI
- (26) SUB-COMPACT
- (27) COMPACT
- (28) INTERMEDIATE
- (29) FULL

## SIZE

## WHEELBASE

SUB-MINI	< 2286 mm (< 90")
MINI	2286 - 2412 mm (90" - 94.9")
SUB-COMPACT	2413 - 2539 mm (95" - 99.9")
COMPACT	2540 - 2666 mm (100" - 104.9")
INTERMEDIATE	2667 - 2793 mm (105" - 109.9")
FULL	2794 - 2920 mm (110" - 114.9")
LARGE	2921 - 3174 mm (115" - 124.9")
LIMOUSINE	> 3175 mm (> 125")

## MULTIPURPOSE PASSENGER VEHICLE

- (11) SMALL VAN (MINI)
- (12) PICKUP
- (14) SMALL UTILITY (WHEELBASE LESS THAN 107",  
E.G. JEEP, BRONCO)
- (15) LARGE UTILITY (WHEELBASE MORE THAN 107",  
E.G. PANEL TRUCK, SUBURBAN)
- (16) PICKUP TRUCK WITH CANOPY/SHELL COVER
- (17) PICKUP CAR WITH CANOPY/SHELL COVER
- (21) MOTOR HOME
- (22) PICKUP TRUCK WITH SLIDE-IN CAMPER
- (23) PICKUP CAR WITH SLIDE-IN CAMPER
- (31) CHASSIS-MOUNTED CAMPER

## TRUCK

- (11) SMALL VAN (E.G. ECONOLINE)
- (12) PICKUP TRUCK
- (13) UNKNOWN LIGHT TRUCK
- (15) LARGE UTILITY (E.G. PANEL TRUCK, SUBURBAN)
- (16) PICKUP TRUCK WITH CANOPY/SHELL COVER
- (22) PICKUP TRUCK WITH SLIDE-IN CAMPER
- (30) UNKNOWN TRUCK TYPE
- (31) CHASSIS-MOUNTED CAMPER
- (33) DELIVERY VAN (WALK-IN)
- (34) STRAIGHT TRUCK
- (35) TRUCK-TRACTOR (BOBTAIL)
- (36) CHASSIS-CAB
- (37) UNKNOWN HEAVY TRUCK
- (38) TRACTOR & SEMI-TRAILER (SEMI)
- (39) TRUCK (OR SEMI) & FULL TRAILER(S)

## BUS

- (40) UNKNOWN BUS TYPE
- (41) SCHOOL BUS
- (42) INTERCITY BUS (BETWEEN CITIES)
- (43) TRANSIT BUS (INTRACITY)
- (44) STREETCAR (ON TRACKS)

## MOTORCYCLE

- (50) UNKNOWN MOTORCYCLE TYPE
- (51) 1 - 75 cc
- (52) 76 - 125 cc
- (53) 126 - 250 cc
- (54) 251 - 500 cc
- (55) 501 - 750 cc
- (56) 751 cc +
- (57) 3-WHEELS (OR WITH SIDECAR)

## SPECIAL PURPOSE VEHICLE

- (60) UNKNOWN/OTHER SPECIAL VEHICLE (DESCRIBE)
- (61) SNOWMOBILE
- (62) ATV (ALL TERRAIN VEHICLE)
- (63) AMPHIBIOUS VEHICLE
- (64) FARM VEHICLE
- (65) CONSTRUCTION VEHICLE
- (66) TRAILER, PRIVATE (CAMPER)
- (67) TRAILER, COMMERCIAL (CARGO)
- (68) TRAIN (CARS)
- (69) LOCOMOTIVE (ENGINE, SWITCHER)

## OBJECT

- (70) PEDESTRIAN
- (71) BICYCLIST, OTHER PEDALCYCLIST
- (72) PEDESTRIAN CONVEYANCE (E.G. PERSON RIDING  
ANIMAL, CART)
- (73) LARGE ANIMAL
- (74) FALLEN OBJECT (E.G. OBJECT DISLODGED FROM  
OTHER VEHICLE, FALLEN TREE, ROCKS)
- (75) ROCKS
- (76) CONSTRUCTION EQUIPMENT (EXCLUDING (65))
- (77) SIGN POST, UTILITY POLE, TREE..
- (78) DITCH
- (79) EMBANKMENT, SNOWBANK, RR TRACKS RR X
- (80) GROUND (ROLLOVER ONLY)
- (81) CURB (DAMAGE PRODUCING IMPACTS ONLY)
- (82) CULVERT
- (83) FENCE
- (84) HYDRANT, SHORT POST, STUMP
- (85) SMALL POST/TREE, RURAL MAIL BOX, MILE  
MARKER, DELINEATOR
- (86) BUILDING
- (87) PIER, PILLAR, BRIDGE SUPPORT
- (88) ABUTMENT, RETAINING WALL
- (89) BRIDGE RAIL
- (90) GUARD RAIL, LEADING SECTION
- (91) GUARD RAIL, MIDDLE OR UNKNOWN
- (92) GUARD RAIL, TRAILING SECTION
- (93) GUARD POST (TIMBER, METAL, CONCRETE)
- (94) CABLE, FENCE BARRIER
- (95) CONCRETE BARRIER (MEDIAN)
- (96) IMPACT ATTENUATOR
- (97) BREAKAWAY FEATURES

Duplicate columns 1-8 from the previous card.		Module <u>C</u> <u>R</u> Format <u>0</u> <u>1</u> 9 10 11 12		CRASH RECONSTRUCTION CR-1 for $\Delta V$			
		CASE VEHICLE PRIMARY IMPACT		CASE VEHICLE SECONDARY IMPACT			
		CASE VEHICLE	CONTACTED VEHICLE	CASE VEHICLE	CONTACTED VEHICLE		
EVENT NUMBER		<u>1</u> 13		<u>2</u> 47			
$\Delta V$ (km/h)	TOTAL	<u>9</u> — 14 15 16	<u>8</u> — 32 33 34	<u>9</u> — 48 49 50	<u>8</u> — 66 67 68		
	LONGITUDINAL*	<u>9</u> — 17 20	<u>8</u> — 35 38	<u>9</u> — 51 54	<u>8</u> — 69 72		
	LATERAL*	<u>9</u> — 21 24	<u>8</u> — 39 42	<u>9</u> — 55 58	<u>8</u> — 73 76		
*NOTE: THESE $\Delta V$ COMPONENTS MUST INCLUDE SIGN.							
EXAMPLES: 10 km/h = $\pm 010$ -7 km/h = $-007$							
ENERGY DISSIPATED BY CRUSH (kj)		<u>9</u> — 25 28	<u>8</u> — 43 46	<u>9</u> — 59 62	<u>8</u> — 77 80		
RECONSTRUCTION							
(01) RECONSTRUCTED, UNKNOWN CONFIDENCE LEVEL		<u>09</u> 29 30		<u>09</u> 63 64			
(21) RECONSTRUCTED, LOW CONFIDENCE LEVEL							
(22) RECONSTRUCTED, MODERATE CONFIDENCE LEVEL							
(23) RECONSTRUCTED, HIGH CONFIDENCE LEVEL							
NOT RECONSTRUCTED BECAUSE							
(02) INSUFFICIENT DATA							
(03) EXCESSIVE UNDERRIDE/ OVERRIDE							
(04) ROLLOVER							
(05) VAULTING							
(06) OTHER TRAVEL IN MORE THAN ONE PLANE							
(07) NON-HORIZONTAL FORCE							
(08) SIDESWIPE-TYPE DAMAGE							
(09) YIELDING OBJECT							
(10) OTHER: _____							
(11) AT LEAST ONE VEHICLE BEYOND SCOPE							
(12) OTHER VEHICLE NOT INSPECTED							
MODE							
(1) CDC ONLY							
(2) CDC & DETAILED DAMAGE							
(3) TRAJECTORY & CDC							
(4) TRAJECTORY & CDC & DETAILED DAMAGE							
(5) NOT RECONSTRUCTED							
COMPUTER PROGRAM SPECIFY: _____							

Duplicate columns 1-8 from the previous card.		Module <u>C</u> <u>R</u> Format <u>0</u> <u>2</u> 9 10 11 12		CRASH RECONSTRUCTION for EBS		CR-2	
		CASE VEHICLE PRIMARY IMPACT		CASE VEHICLE SECONDARY IMPACT			
		CASE VEHICLE	CONTACTED VEHICLE	CASE VEHICLE	CONTACTED VEHICLE		
EVENT NUMBER		<u>1</u> 13		<u>2</u> 47			
EBS (km/h)	TOTAL	<u>017</u> 14 15 16	<u>8</u> — 32 33 34	<u>9</u> — 48 49 50	<u>8</u> — 66 67 68		
	LONGITUDINAL*	<u>-017</u> 17 20	<u>8</u> — 35 38	<u>9</u> — 51 54	<u>8</u> — 69 72		
	LATERAL*	<u>+000</u> 21 24	<u>8</u> — 39 42	<u>9</u> — 55 58	<u>8</u> — 73 76		
*NOTE: THESE EBS COMPONENTS MUST INCLUDE SIGN.							
EXAMPLES: 10 km/h = ± 010 -7 km/h = -007							
ENERGY DISSIPATED BY CRUSH (kj)		<u>0012</u> 25 28	<u>8</u> — 43 46	<u>9</u> — 59 62	<u>8</u> — 77 80		
RECONSTRUCTION							
(01) RECONSTRUCTED, UNKNOWN CONFIDENCE LEVEL		<u>22</u> 29 30		<u>02</u> 63 64			
(21) RECONSTRUCTED, LOW CONFIDENCE LEVEL							
(22) RECONSTRUCTED, MODERATE CONFIDENCE LEVEL		<u>10</u>					
(23) RECONSTRUCTED, HIGH CONFIDENCE LEVEL							
NOT RECONSTRUCTED BECAUSE							
(02) INSUFFICIENT DATA							
(03) EXCESSIVE UNDERRIDE/ OVERRIDE							
(04) ROLLOVER							
(05) VAULTING							
(06) OTHER TRAVEL IN MORE THAN ONE PLANE							
(07) NON-HORIZONTAL FORCE							
(08) SIDESWIPE-TYPE DAMAGE							
(09) YIELDING OBJECT							
(10) OTHER: _____							
(11) AT LEAST ONE VEHICLE BEYOND SCOPE							
(12) OTHER VEHICLE NOT INSPECTED							
MODE							
(1) CDC ONLY		<u>2</u> 31		<u>5</u> 65			
(2) CDC & DETAILED DAMAGE							
(3) TRAJECTORY & CDC							
(4) TRAJECTORY & CDC & DETAILED DAMAGE							
(5) NOT RECONSTRUCTED							
COMPUTER PROGRAM SPECIFY: <u>SMASH</u>							

Duplicate columns 1-8  
from the previous card.Module C R Format 0 3  
9 10 11 12

## CRASH RECONSTRUCTION CR-3

## NOTES:

1. ENTER CRASH RECONSTRUCTION DAMAGE MEASUREMENTS IN CENTIMETERS.
2. MEASURE  $C_1$  TO  $C_6$  FROM DRIVER TO PASSENGER SIDE IN FRONT OR REAR IMPACTS, REAR TO FRONT IN SIDE IMPACTS.
3.  $D$  IS POSITIVE IF MEASURED TO A POINT FORWARD OF OR TO THE RIGHT OF THE CG.
4. USE THE CENTER OF THE WHEELBASE AS THE CG.

CASE VEHICLE

LOCATOR

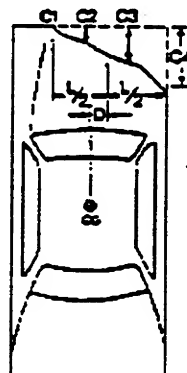
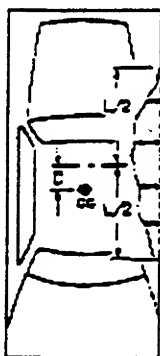
Locate the end of the damage with respect to the vehicle longitudinal center line, or an undamaged axle for side impacts.

Specific Impact No.	Location of Direct Damage	Location of Field L
1	BC to BC	BC to BC

UEW = 152  
 SIZE = 3  
 STIFF = 3  
 WEIGHT W/OCC = 1104

## PLANE:

- (1) Bumper
- (2) Above Bumper
- (3) Sill
- (4) Above Sill
- (5) Other \_\_\_\_\_
- (9) Unknown



DL \_\_\_\_\_

UDL \_\_\_\_\_

## CRUSH PROFILE IN CENTIMETERS

NOTE: Each line in the table below is a separate record (card).

Duplicate columns 1 - 12 for each completed line.

Specific Impact Number	Plane of Impact C-Measur.	Direct Damage		Field L	C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>	C <sub>5</sub>	C <sub>6</sub>	±D
		Length (DDL)	Max Crush								
1	1	131	14.5	131	19.5	8	3	3.5	5	17	0
			7		7	4	2	2	4	7	
			1		1	1	1	1	1	1	
			11.5		11.5	3	0	.5	0	9	
1	1	131	012	131	012	003	000	001	000	009	+000
13	14	15 16 17	18 19 20	21 22 23	24 25 26	27 28 29	30 31 32	33 34 35	36 37 38	39 40 41	42 43 44 45
2											
2	9	999	999	999	999	999	999	999	999	999	9999



**Duplicate columns 1-8  
from the previous card.**

Module C R Format 0 4  
9 10 11 12

## CRASH RECONSTRUCTION CR-4

**NOTES:**

- 1. ENTER CRASH RECONSTRUCTION DAMAGE MEASUREMENTS IN CENTIMETERS.**
- 2. MEASURE C<sub>1</sub> TO C<sub>6</sub> FROM DRIVER TO PASSENGER SIDE IN FRONT OR REAR IMPACTS, REAR TO FRONT IN SIDE IMPACTS.**
- 3. D IS POSITIVE IF MEASURED TO A POINT FORWARD OF OR TO THE RIGHT OF THE CG.**
- 4. USE THE CENTER OF THE WHEELBASE AS THE CG.**

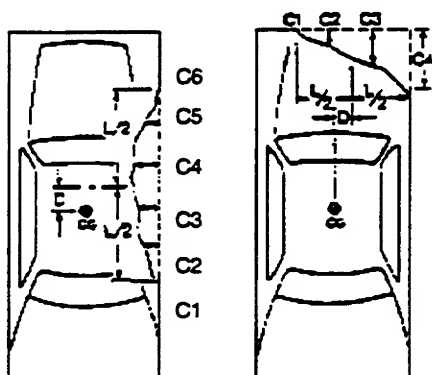
OTHER VEHICLE  
LOCATOR

**Locate the end of the damage with respect to the vehicle longitudinal center line, or an undamaged axle for side impacts.**

Specific Impact No.	Location of Direct Damage	Location of Field L



- (1) Bumper  
(2) Above Bumper  
(3) Sill  
(4) Above Sill  
(5) Other \_\_\_\_\_  
(9) Unknown



DL \_\_\_\_\_

UDL \_\_\_\_\_

**CRUSH PROFILE IN CENTIMETERS**

**NOTE:** Each line in the table below is a separate record (card).

**Duplicate columns 1 - 12 for each completed line.**

[illegible]

WHEELS--DAMAGED

- (0) NO  
(1) YES  
(9) UNKNOWN

LF 0  
13  
RF 1  
RR 0  
LR 0  
16

SIZE (NOT DOT CODE. IF UNKNOWN, USE 9'S)

LF P 1 7 5 7 0 R 1 4  
25  
RF \_\_\_\_\_  
35  
RR \_\_\_\_\_  
45  
LR \_\_\_\_\_  
55

TIRE TREAD TYPE

- (1) REGULAR  
(2) SNOW  
(3) SLICKS  
(4) ALL WEATHER (MS)  
(7) OTHER: \_\_\_\_\_  
(9) UNKNOWN

LF 4  
17  
RF 4  
RR 4  
LR 4  
20

CARCASS CONSTRUCTION

- (1) BIAS  
(2) BELTED BIAS  
(3) RADIAL  
(4) ELLIPTICAL  
(5) HI PRESSURE SPARE  
(6) SPACE SAVER SPARE  
(7) OTHER: \_\_\_\_\_  
(9) UNKNOWN

LF 3  
21  
RF 3  
RR 3  
LR 3  
24

IF VEHICLE IS EQUIPPED WITH DUAL  
WHEELS, COMPLETE FOR OUTER WHEELS  
AND MAKE NOTES ON INNER WHEELS.

NOTES: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Duplicate columns 1-8  
from the previous card.Module F T Format 0 1  
9 10 11 12

## FUEL AND FUEL TANKS FT-1

TYPE OF PROPULSIVE FUEL	<u>1</u> 13	AUXILIARY TANK TYPE	<u>8</u> 21
(1) GASOLINE (2) DIESEL OIL (3) LPG (4) ELECTRIC (7) OTHER: _____ (9) UNKNOWN		(1) OEM TANK (2) AFTER MARKET TANK (8) NOT APPLICABLE (NOT EQUIPPED) (9) UNKNOWN	
MAIN TANK LOCATION	<u>323</u> 14 16	AUXILIARY TANK LOCATION	<u>888</u> 22 24
MAIN FILLER CAP LOCATION	<u>113</u> 17 19	AUXILIARY FILLER CAP LOCATION	<u>888</u> 25 27
MAIN TANK MATERIAL <span style="margin-left: 100px;">ce</span>	<u>9</u> 20	AUXILIARY TANK MATERIAL	<u>8</u> 28

## TANK AND FILLER CAP LOCATION CODES

## FIRST DIGIT (LONGITUDINAL)

- (1) BEHIND KICK-UP
- (2) IN KICK-UP
- (3) BETWEEN KICK-UP & COWL
- (4) FORWARD OF COWL
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

## SECOND DIGIT (LATERAL)

- (1) LEFT OF FRAME
- (2) WITHIN FRAME OR CENTERED
- (3) RIGHT OF FRAME
- (4) DUAL, RIGHT & LEFT TANKS
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

## THIRD DIGIT (VERTICAL)

- (1) BELOW FRAME
- (2) WITHIN FRAME OR CENTERED
- (3) ABOVE FRAME
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

## TANK MATERIAL CODES

- (1) STEEL
- (2) ALUMINUM
- (3) PLASTIC
- (7) OTHER
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

Duplicate columns 1-8  
from the previous card.Module F 1 Format 0 1  
9 10 11 12

FUEL LEAKAGE FL-1

## DID FUEL LEAKAGE RESULT FROM A CRASH EVENT

(0) NO KNOWN LEAKAGE SKIP PAGE.(1) YES COMPLETE PAGE.0  
13

LEAK NUMBER	I LEAKING COMPONENT	II COMPONENT SOURCE	III TYPE OF DAMAGE	IV SEVERITY OF DAMAGE	V LOCATION OF LEAK	EVENT NUMBER
#1	<u>14</u> <u>15</u>	—	—	—	— —	<u>21</u>
#2	<u>22</u> <u>23</u>	—	—	—	— —	<u>29</u>
#3	<u>30</u> <u>31</u>	—	—	—	— —	<u>37</u>
#4	<u>38</u> <u>39</u>	—	—	—	— —	<u>45</u>
#5	<u>46</u> <u>47</u>	—	—	—	— —	<u>53</u>

## I LEAKING COMPONENT

## TANK AREA

- (11) MAIN FUEL TANK (INCLUDING  
VAPOR RECOVERY DOME)  
(12) AUXILIARY FUEL TANK  
(13) MAIN TANK FILLER TUBE  
(14) MAIN TANK CAP (GAS CAP)  
(15) AUXILIARY TANK FILLER TUBE  
(16) AUXILIARY TANK CAP (GAS CAP)  
(19) TANK AREA, DETAILS UNKNOWN

## DELIVERY SYSTEM

- (21) FUEL FEED LINE (MAIN TANK  
TO FUEL PUMP)  
(22) FUEL FEED LINE (AUXILIARY  
TANK TO FUEL PUMP)  
(23) FUEL RETURN LINE (FUEL  
PUMP TO TANK)  
(24) INLINE FUEL FILTER  
(25) FUEL LINE (PUMP TO  
CARBURETOR OR INJECTOR PUMP)  
(26) CARBURETOR TO INJECTOR PUMP  
(27) FUEL PUMP  
(29) DELIVERY SYSTEM, DETAILS  
UNKNOWN

## EVAPORATIVE EMISSION CONTROL SYSTEM

- (31) ATMOSPHERIC VENT PIPE  
(NON-EEC EQUIPPED)  
(32) EEC PIPE (VAPOR CANISTER  
TO CARBURETOR)

## EEC SYSTEM (CONTINUED)

- (33) VAPOR RECOVERY HOSES  
(CANISTER TO CARBURETOR)  
(34) LIQUID-VAPOR SEPARATOR  
(UNLESS PART OF TANK)  
(35) CANISTER  
(39) EEC SYSTEM, DETAILS  
UNKNOWN

- (49) ENGINE COMPARTMENT,  
COMPONENT UNKNOWN  
(99) COMPONENT UNKNOWN

## II COMPONENT SOURCE

- (1) OEM  
(2) AFTER MARKET  
(9) UNKNOWN

## III TYPE OF DAMAGE

- (1) DENTED/CRUSHED  
(2) PUNCTURED  
(3) RUPTURED  
(4) SEVERED/GROSS TEARS  
(5) DISCONNECTED/DEFEATED  
(9) UNKNOWN

## IV SEVERITY OF DAMAGE

- (1) MINOR  
(2) MODERATE  
(3) SEVERE  
(4) DISCONNECTED/DEFEATED  
(9) UNKNOWN

## V LOCATION OF LEAK

FIRST DIGIT  
(LONGITUDINAL LOCATION)

- (1) F, FORWARD OF COWL  
(2) P, BETWEEN COWL &  
REAR BULKHEAD  
(3) B, BEHIND REAR BULKHEAD  
(4) Y, F, & P  
(5) Z, P, & B  
(6) D, DISTRIBUTED  
(F, P & B)  
(9) UNKNOWN

SECOND DIGIT  
(LATERAL LOCATION)

- (1) L, LEFT  
(2) C, CENTER  
(3) R, RIGHT  
(4) Y, LEFT CENTER (L & C)  
(5) Z, RIGHT CENTER (R & C)  
(6) D, DISTRIBUTED  
(F, P & B)  
(9) UNKNOWN

Duplicate columns 1-8  
from the previous card.

Module F R Format 0 1  
9 10 11 12

FIRE FR-1

WAS THERE FIRE IN OR ON CASE VEHICLE?

(0) NO SKIP PAGE.

(1) YES COMPLETE PAGE.

0  
13

DID FIRE START IN CASE VEHICLE?

- (0) NO  
(1) YES  
(9) UNKNOWN

      
14

SEVERITY OF FIRE DAMAGE

- (1) MINOR  
(2) MODERATE  
(3) SEVERE  
(9) UNKNOWN

      
16

FLAME PROPOGATION RATE

- (1) RAPID/EXPLOSIVE  
(2) SLOW/MODERATE  
(9) UNKNOWN

      
15

DID AN INJURY TO CASE  
VEHICLE OCCUPANT RESULT FROM  
FIRE IN OR ON CASE VEHICLE?

- (0) NO  
(1) YES  
(9) UNKNOWN

      
17

PROVIDE NOTES IF FIRE OCCURRED.

## HOOD PERFORMANCE

FOR THE FOLLOWING, USE CODES:

- (0) NO  
(1) YES  
(8) NOT APPLICABLE  
(9) UNKNOWN

HOOD LATCH(ES)- -RELEASED

-DAMAGED

-JAMMED

HOOD HINGES- -LEFT, DAMAGED

-LEFT, SEPARATED  
(COMPLETE)

-RIGHT, DAMAGED

-RIGHT, SEPARATED  
(COMPLETE)

HOOD REMAINED ON VEHICLE

REAR EDGE OF HOOD- -ELEVATED

-CONTACTED WINDSHIELD

-PENETRATED WINDSHIELD

HOOD LATCH LOCATION

- (1) FRONT OF VEHICLE  
(2) COWL AREA  
(3) SIDE  
(8) NOT APPLICABLE  
(9) UNKNOWN

## ENGINE OR TRANSMISSION MOUNT

SEPARATION (COMPLETE)

- (0) NO  
(1) YES  
(9) UNKNOWN

## STEERING COL FLEXIBLE COUPLING

FLEXIBLE COUPLING TYPE

- (0) NONE  
(1) FLEXIBLE MATERIAL  
(2) POT  
(3) SINGLE U-JOINT  
(4) DOUBLE U-JOINT  
(5) FLEXIBLE CABLE  
(6) COMBINATION OF ABOVE  
(CIRCLE EACH)  
(7) OTHER: \_\_\_\_\_  
(8) EQUIPPED, TYPE UNKNOWN  
(9) UNKNOWN, IF EQUIPPED

COUPLING- -DAMAGED

(USE CODES  
FROM HOOD  
PERFORMANCE)-SEPARATED  
(COMPLETE)

## ENG COMPART TELESCOPING UNIT

TYPE OF UNIT

- (00) NONE INSTALLED  
(01) - (07) SEE UNITS ON PAGE ED-2  
(88) NOT COLLECTED  
(97) OTHER: \_\_\_\_\_  
(98) EQUIPPED, TYPE UNKNOWN  
(99) UNKNOWN IF EQUIPPED

ORIGINAL LENGTH (mm)

F (OR H): \_\_\_\_\_

TELESCOPED LENGTH (mm)

G: \_\_\_\_\_

DIFFERENCE (mm)

F (OR H) - G

(IF LESS THAN 15mm, ENTER "000".)

- (888) NOT COLLECTED  
(991) NOT MEASURED/NO  
COMPRESSION  
(992) COMPRESSED, AMOUNT  
UNKNOWN  
(993) DEVICE EXTENDED  
(997) UNABLE TO BE MEASURED  
(998) NOT APPLICABLE (NOT  
EQUIPPED)  
(999) UNKNOWN

## EXTERIOR DAMAGE

ED-2

## LEFT-SIDE BODY MOUNT

DID BODY MOUNT SEPARATE?

- (0) NO  
 (1) YES  
 (8) NOT APPLICABLE  
 (9) UNKNOWN

8  
 34

## LEFT Pillars

Pillars separated completely -

USE CODES:

- (0) NO  
 (1) YES  
 (4) NO SEPARATION, BUT DAMAGED  
 (8) NOT APPLICABLE (NOT EQUIPPED)  
 (9) UNKNOWN

-A-PILLAR, UPPER

0  
 35

LOWER

0  
 36

-B-PILLAR, UPPER

0  
 37

LOWER

0  
 38

-C-PILLAR, UPPER

0  
 39

LOWER

0  
 40

-D-PILLAR, UPPER

8  
 41

LOWER

8  
 42

## LEFT DOORS

HOW DID DOORS  
OPEN DURING COLLISION?

USE CODES:

(0) DOOR DID NOT OPEN

OPENED BECAUSE OF

- (1) HINGE AREA SEPARATION  
 (2) DOOR-LATCH SEPARATION  
 (3) LATCH-STRIKER SEPARATION  
 (4) STRIKER-PILLAR SEPARATION  
 (5) BODY DISTORTION  
 (6) COMBINATION OF ABOVE  
 (CIRCLE EACH)  
 (7) OPENED, REASON UNKNOWN

- (8) NOT APPLICABLE (NO DOOR)  
 (9) UNKNOWN

-FRONT

0  
 43

-REAR

0  
 44

DOORS JAMMED CLOSED-

USE CODES:

- (0) NO  
 (1) YES  
 (8) NOT APPLICABLE (NO DOOR)  
 (9) UNKNOWN

-FRONT

0  
 45

-REAR

0  
 46

## EXTERIOR DAMAGE

ED-3

## REAR DOOR

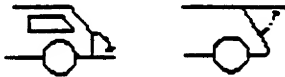
## REAR DOOR TYPE

- (0) NO DOOR (INCLUDES PICKUPS)  
 (1) HATCHBACK  
 (2) ONE-WAY TAILGATE  
 (3) TWO-WAY TAILGATE  
 (4) CLAMSHELL/DISAPPEARING TAILGATE  
 (5) SINGLE DOOR  
 (6) DOUBLE DOOR  
 (9) UNKNOWN

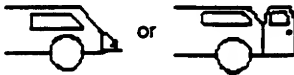
Hatchback



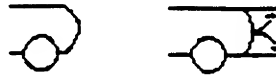
One-way



Two-way



Clamshell



Single door



Double door

HOW DID DOOR  
OPEN DURING COLLISION?

- (0) DOOR DID NOT OPEN  
 OPENED BECAUSE OF

- (1) HINGE AREA SEPARATION  
 (2) DOOR-LATCH SEPARATION  
 (3) LATCH-STRIKER SEPARATION  
 (4) STRIKER-PILLAR SEPARATION  
 (5) BODY DISTORTION  
 (6) COMBINATION OF ABOVE  
 (CIRCLE EACH)  
 (7) OPENED, REASON UNKNOWN  
 (8) NOT APPLICABLE (NO DOOR)  
 (9) UNKNOWN

## DOOR JAMMED CLOSED

- (0) NO  
 (1) YES  
 (8) NOT APPLICABLE (NO DOOR)  
 (9) UNKNOWN

0  
 47

## OTHER REAR DAMAGE

WAS PARTITION TO LUGGAGE AREA  
DAMAGED DURING COLLISION?

- (0) NO  
 (1) YES  
 (8) NOT APPLICABLE  
 (9) UNKNOWN

0  
 50

## SPARE TIRE

- (0) NO SPARE TIRE  
 (1) NOT ATTACHED BEFORE COLLISION  
 (2) ATTACHED, NOT SEPARATED IN COLLISION  
 (3) ATTACHED, SEPARATED DUE TO COLLISION  
 (8) NOT COLLECTED  
 (9) UNKNOWN

8  
 51

## TRAILER HITCH TYPE

- (0) NO HITCH

## BALL-AND-SOCKET TYPES

- (1) TEMPORARY FRAMEWORK (E.G. RENTAL CLAMP-ON)  
 (2) BUMPER-MOUNT ONLY (E.G. LIGHT TRUCK)  
 (3) BUMPER-AND-FRAME (BUT NON-EQUALIZING)  
 (4) LOAD EQUALIZING

## OTHER TYPES

- (5) RING-AND-PINTLE  
 (6) FIFTH-WHEEL (INCL. P/U)  
 (7) OTHER (E.G. CLEVIS-AND-PIN)

- (8) EQUIPPED, TYPE UNKNOWN  
 (9) UNKNOWN IF EQUIPPED

0  
 52

TRAILER TYPE  
(AT TIME OF COLLISION)

- (0) NO TRAILER  
 (1) TRAVEL-TRAILER/CAMPER  
 (2) MOBILE HOME  
 (3) BOAT/SNOWMOBILE/ATV TRAILER  
 (4) UTILITY TRAILER  
 (5) TOWED CAR  
 (7) OTHER:  
 (8) TRAILER, TYPE UNKNOWN  
 (9) UNKNOWN

0  
 53

8  
 48

8  
 49



## EXTERIOR DAMAGE

ED-4

## RIGHT-SIDE BODY MOUNT

DID BODY MOUNT SEPARATE?

- (0) NO  
 (1) YES  
 (8) NOT APPLICABLE  
 (9) UNKNOWN

8  
 54

## RIGHT PILLARS

PILLARS SEPARATED COMPLETELY -

USE CODES:

- (0) NO  
 (1) YES  
 (4) NO SEPARATION, BUT DAMAGED  
 (8) NOT APPLICABLE (NOT EQUIPPED)  
 (9) UNKNOWN

-A-PILLAR, UPPER

0  
 55

LOWER

0  
 56

-B-PILLAR, UPPER

0  
 57

LOWER

0  
 58

-C-PILLAR, UPPER

0  
 59

LOWER

0  
 60

-D-PILLAR, UPPER

8  
 61

LOWER

8  
 62

## RIGHT DOORS

HOW DID DOORS  
OPEN DURING COLLISION?

USE CODES:

(00) DOOR DID NOT OPEN

OPENED BECAUSE OF

- (01) HINGE AREA SEPARATION  
 (02) DOOR-LATCH SEPARATION  
 (03) LATCH-STRIKER SEPARATION  
 (04) STRIKER-PILLAR SEPARATION  
 (05) BODY DISTORTION  
 (06) COMBINATION OF ABOVE  
 (CIRCLE EACH)  
 (07) OPENED, REASON UNKNOWN  
 (11) VAN RIGHT-REAR DOOR OPENED  
 (ANY MECHANISM)

(98) NOT APPLICABLE (NO DOOR)

(99) UNKNOWN

-FRONT

0 0  
 63 64

-REAR

0 0  
 65 66

## DOORS JAMMED CLOSED-

USE CODES:

- (0) NO  
 (1) YES  
 (8) NOT APPLICABLE (NO DOOR)  
 (9) UNKNOWN

-FRONT

0  
 67

-REAR

0  
 68

## VAN REAR DOOR TYPE

- (0) VAN, NO REAR DOOR  
 (1) TRACK (SLIDING) - RIGHT SIDE  
 (2) SINGLE-HINGED - RIGHT SIDE  
 (3) DOUBLE-HINGED - RIGHT SIDE  
 (4) TRACK (SLIDING) - RIGHT & LEFT SIDE  
 (5) SINGLE-HINGED - RIGHT & LEFT SIDE  
 (6) DOUBLE-HINGED - RIGHT & LEFT SIDE  
 (7) TRACK AND HINGED COMBINATION  
 (8) NOT APPLICABLE (NOT A VAN)  
 (9) UNKNOWN

8  
 69

## EXTERIOR DAMAGE

ED-5

## WINDSHIELD DAMAGE

## WINDSHIELD CRACKED

- (0) NO  
 (1) YES  
 (8) NOT APPLICABLE  
 (9) UNKNOWN

WINDSHIELD BROKEN  
(PLASTIC INTERLAYER TORN)

- (0) NO  
 (1) YES  
 (8) NOT APPLICABLE  
 (9) UNKNOWN

CRACKED OR BROKEN  
BY OCCUPANT CONTACT

- (0) NO  
 (1) YES  
 (8) NOT APPLICABLE  
 (9) UNKNOWN

## EXTENT OF BOND SEPARATION

- (0) NONE  
 (1) 1 - 20%  
 (2) 21 - 40  
 (3) 41 - 60  
 (4) 61 - 80  
 (5) 81 - 99  
 (6) TOTAL  
 (7) SEPARATED, AMOUNT  
 UNKNOWN  
 (8) NOT APPLICABLE  
 (9) UNKNOWN

1  
700  
710  
720  
73

## WINDSHIELD MARK ON CASE VEHICLE:

?

## WINDSHIELD CODE

- (97) DESCRIBED BUT NOT CODED  
 (98) NOT APPLICABLE (NO WINDSHIELD)  
 (99) UNKNOWN

9 9  
74 75

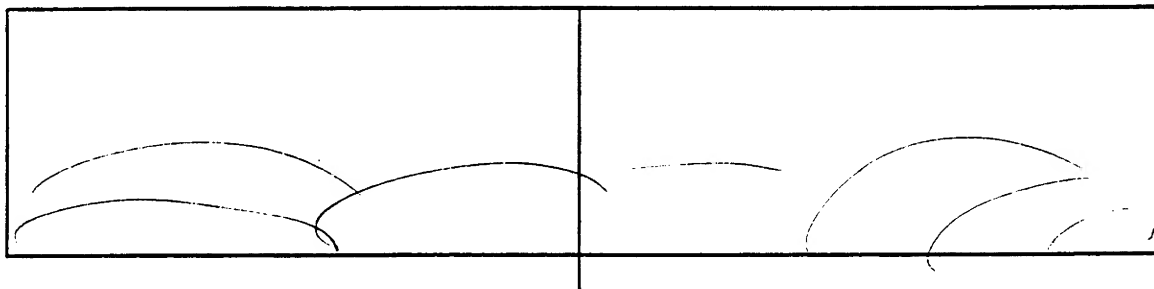
## Roof

DID T-ROOF/SUN ROOF OPEN  
DURING COLLISION?

- (0) NO  
 (1) YES  
 (8) NOT APPLICABLE  
 (NOT A T-ROOF OR SUN ROOF)  
 (9) UNKNOWN

8  
76

LOCATE AREA OF WINDSHIELD INTEREST OR DAMAGE WITH DIMENSIONS (VERTICAL & HORIZONTAL) ON THIS DIAGRAM OF THE WINDSHIELD AS VIEWED FROM INSIDE.



L

C

R

Duplicate columns 1-8  
from the previous card.Module S C Format 0 1  
9 10 11 12

## STEERING WHEEL AND COLUMN SC-1

## STEERING WHEEL

## STEERING WHEEL RIM DAMAGE

- (0) NONE  
(1) DEFORMED SLIGHTLY  
(2) SEVERELY BENT  
(3) BROKEN  
(9) UNKNOWN

0  
13

NUMBER OF  
STEERING WHEEL SPOKES

- (9) UNKNOWN

2  
14

## STEERING WHL SPOKE DAMAGE

- (0) NONE  
(1) DEFORMED SLIGHTLY  
(2) SEVERELY BENT  
(3) BROKEN  
(9) UNKNOWN

0  
15

STEERING WHEEL POSITION  
AT TIME OF COLLISION

IN WHAT O'CLOCK POSITION WAS THE  
NORMAL TOP OF THE WHEEL POINTED  
WHEN THE COLLISION OCCURRED?

## EXAMPLES

O'CLOCK = 12



(NORMAL STRAIGHT  
AHEAD)

O'CLOCK = 99



O'CLOCK = 99

(99) UNKNOWN

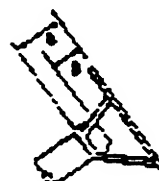
STEERING WHEEL  
ENERGY ABSORBING DEVICE

## (1) EXAMPLES:



BARRACUDA, 70-74  
CHALLENGER, 70-74  
CAPRI, 71-77

## (2) EXAMPLES:



OMNI, 78-  
HORIZON, 78-

## STEERING COLUMN OPTIONS

## TILT FEATURE

- (0) NOT EQUIPPED  
(1) YES, EQUIPPED, UNK POSITION  
(2) UP  
(3) MIDDLE  
(4) LOWER  
(9) UNKNOWN IF EQUIPPED

3 AT USP

4  
16

## SWING-AWAY FEATURE

- (0) NOT EQUIPPED  
(1) YES, EQUIPPED  
(9) UNKNOWN IF EQUIPPED

0  
17

## TELESCOPING FEATURE

- (0) NOT EQUIPPED  
(1) YES, EQUIPPED  
(9) UNKNOWN IF EQUIPPED

0  
18

## TYPE OF DEVICE

- (0) NONE  
(1) CONVOLUTED OR MESH CYLINDER  
(2) DEEP DISH STEERING WHEEL  
(7) OTHER: \_\_\_\_\_  
(8) NOT COLLECTED  
(9) UNKNOWN IF EQUIPPED

8  
19

## ORIGINAL DIMENSION (mm)

A: \_\_\_\_\_

## DAMAGE DIMENSION (mm)

B: \_\_\_\_\_

## DIFFERENCE (mm)

A - B

- (888) NOT COLLECTED  
(991) NOT MEASURED/NO APPARENT  
COMPRESSION  
(992) COMPRESSED, AMOUNT UNKNOWN  
(993) DEVICE EXTENDED  
(997) UNABLE TO MEASURE  
(998) NOT APPLICABLE (NOT EQUIPPED)  
(999) UNKNOWN

8 8 8  
20 22

## STEERING WHEEL AND COLUMN SC-2

STEERING COLUMN  
ENERGY ABSORBING DEVICE

TYPE OF DEVICE \* (IF 27 OR 28)

- (00) NOT EQUIPPED  
(88) NOT COLLECTED  
(99) UNKNOWN

$$\frac{8}{23} \quad \frac{8}{24}$$

ORIGINAL LENGTH (mm)

C: \_\_\_\_\_

COMPRESSED LENGTH (mm)

D: \_\_\_\_\_

BRACKET DEFLECTION (IF CODE 36, 48,  
OR 49 ABOVE)

OR

COMPRESSION (OR EXTRUSION) (mm)

C - D (OR E) (TOLERANCE:  $\pm 10$ )

- (888) NOT COLLECTED  
(991) NOT MEASURED/NO APPARENT  
COMPRESSION  
(992) COMPRESSED, AMOUNT UNKNOWN  
(993) DEVICE EXTENDED  
(997) UNABLE TO BE MEASURED  
(998) NOT APPLICABLE (NOT EQUIPPED)  
(999) UNKNOWN

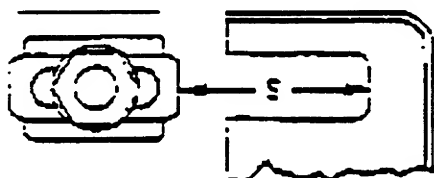
$$\frac{8}{25} \quad \frac{8}{26} \quad \frac{8}{27}$$

\* (ADD A &amp; B FOR TOTAL COMPRESSION)

SHEAR CAPSULE SEPARATION (mm)

S (USE AVG. OF LEFT &amp; RIGHT CAPSULES.)

LT:



RT:

- (888) NOT COLLECTED  
(991) NOT MEASURED/NO APPARENT  
SEPARATION  
(992) SEPARATED, AMOUNT UNKNOWN  
(997) UNABLE TO BE MEASURED  
(998) NOT APPLICABLE (NOT EQUIPPED)  
(999) UNKNOWN

$$\frac{8}{28} \quad \frac{8}{29} \quad \frac{8}{30}$$

COLUMN VERTICAL ROTATION

- (0) NO APPARENT ROTATION  
(1) UPWARD APPARENT ROTATION  
(2) DOWNWARD APPARENT ROTATION  
(9) UNKNOWN

$$\frac{0}{31}$$

COLUMN LATERAL ROTATION

- (0) NO APPARENT ROTATION  
(1) LEFT APPARENT ROTATION  
(2) RIGHT APPARENT ROTATION  
(9) UNKNOWN

$$\frac{0}{32}$$

## STEERING WHEEL (CONTINUED)

STEERING WHEEL HUB DAMAGE

- (0) NONE  
(1) OCCUPANT CONTACT  
(2) AIRBAG  
(3) OTHER \_\_\_\_\_  
(9) UNKNOWN

$$\frac{0}{33}$$

## INTRUSION IT-1

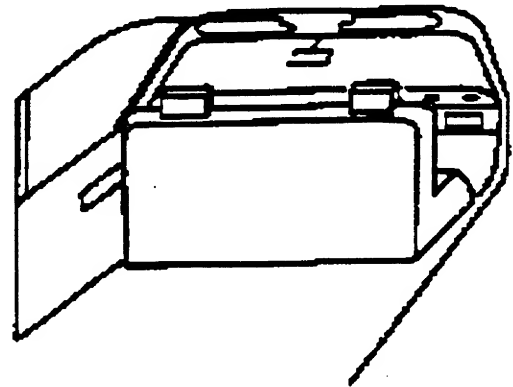
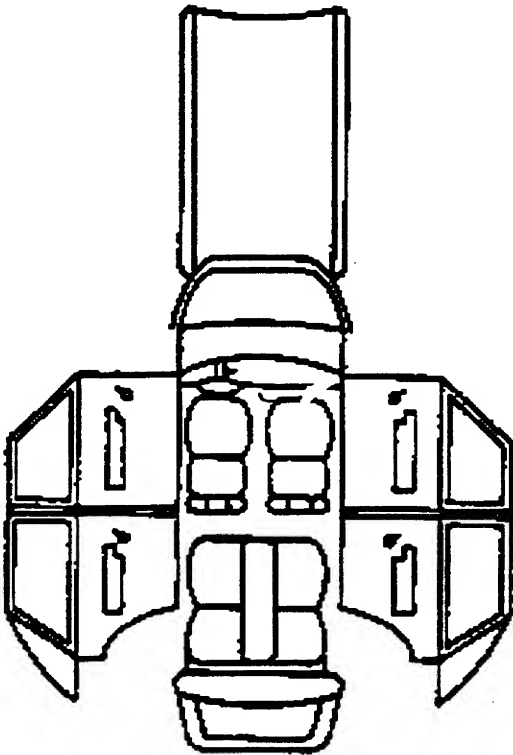
Location of Intrusion	Intruded Component	(All Measurements Are in Centimeters)				Dominant Crush Direction
		Comparison Value	—	Intruded Value	=	Intrusion
13	TOE PAN		—		=	5
			—		=	
			—		=	
			—		=	
			—		=	
			—		=	
			—		=	
			—		=	
			—		=	
			—		=	
			—		=	
			—		=	
			—		=	
			—		=	
			—		=	
			—		=	
			—		=	
			—		=	
			—		=	

## OCCUPANT CONTACT WORKSHEET

Contact	Interior Component Contacted	Occupant No. if Known	Body Region if Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	LOWER ID	1	KNEE	SCUFF (LT)	1
B	STEERING COLUMN	1	THIGH	SCUFF	1
C	AIRBAG	1	FACE	MAKEUP	1
D	CONSOLE	1		CONSOLE PANEL BROKE OFF	1
E					
F					
G					
H					
I					
J					

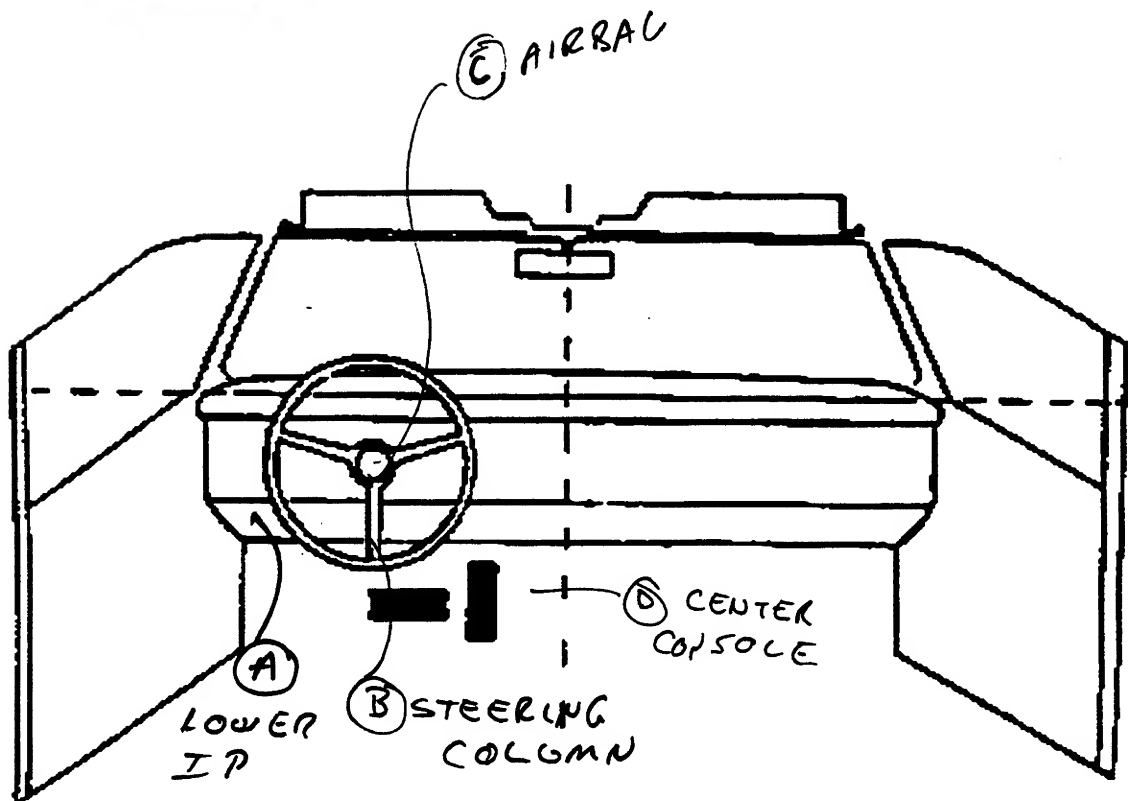
INTRUSION IT-2

## VEHICLE OCCUPANT CONTACT DIAGRAM



BELT IN LOW-POSITION  
ON B-PILLAR

NO MARKS ON BELTS



## CODES FOR COLUMN B, OCCUPANT SPACE NUMBER

OCCUPANT SPACE NUMBER IS A TWO-DIGIT CODE. THE USE OF THE CODE IS DETERMINED BY THE VEHICLE SEAT CONFIGURATION AT THE TIME OF THE ACCIDENT.

## FIRST DIGIT

THE FIRST DIGIT (LEFT DIGIT) DENOTES THE SEAT ROW, WITH CODE VALUES FROM 1 TO 5.

## SECOND DIGIT

THE SECOND DIGIT (RIGHT DIGIT) DENOTES THE POSITION ON THE SEAT AND, IN SOME INSTANCES, THE WIDTH OF THE SEAT.

- |                          |                 |                         |   |
|--------------------------|-----------------|-------------------------|---|
| (1) LEFT                 | (3) RIGHT       | .....                   | INDIVIDUAL SEAT                               |
| (1) LEFT                 | (2) CENTER      | (3) RIGHT               | ..... BENCH: FULL WIDTH 3 PASSENGER           |
| (1) LEFT                 | (2) LEFT CENTER | (6) RIGHT CENTER        | (3) RIGHT ..... BENCH: FULL WIDTH 4 PASSENGER |
| (1) LEFT                 | (2) CENTER      | (5) RIGHT & AISLE SPACE | ..... BENCH: PARTIAL WIDTH, LEFT              |
| (0) LEFT & SPACE         | (2) CENTER      | (5) RIGHT & SPACE       | ..... BENCH: PARTIAL WIDTH, CENTERED          |
| (4) ENTIRE VEHICLE WIDTH | .....           |                         | CARGO AREA                                    |

## EXAMPLES

THE TWO FIGURES BELOW PROVIDE EXAMPLES OF THE OCCUPANT SPACE NUMBER.

PASSENGER CAR  
5 PASSENGERS

X	X	11	13
X	X	21	22 23

VAN  
12 PASSENGER CAPACITY

X	X	11	13
X	X	X	21 22 25
X	X	X	31 32 35
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
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X	X	X	X
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X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	

## CODES FOR COLUMN F, MEASUREMENT AXIS

- (X) X-AXIS (FORE & AFT)  
(Y) Y-AXIS (LATERAL)  
(Z) Z-AXIS (VERTICAL)

## CODES FOR COLUMNS G, H, I &amp; J, OCCUPANT &amp; INJURY NUMBERS

OCCUPANT NUMBER	INJURY NUMBER	CONTACT
(00)	(00)	NO CONTACT
(##)	(00)	CONTACT, NO INJURY
(97)	(99)	CONTACT, OCCUPANT UNKNOWN, INJURY UNKNOWN
(99)	(00) OR (99)	UNKNOWN IF CONTACT

## INTRUSION IT-4

## CODES FOR COLUMN C, INTRUDING COMPONENT OR OBJECT

NOTE: DO NOT CODE OBJECTS OTHER THAN COMPONENTS OF CASE VEHICLE.

## INDIVIDUAL COMPONENT

## INTERNAL

- (01) INSTRUMENT PANEL
- (02) FIRE WALL
- (03) TOE PAN
- (04) FLOOR PAN
- (05) STEERING COLUMN
- (06) WINDSHIELD
- (07) WINDSHIELD HEADER
- (08) A-PILLAR
- (09) DOOR PANEL OR SIDE PANEL
- (10) WINDOW FRAME
- (11) B-PILLAR
- (12) C-PILLAR
- (13) D-PILLAR
- (14) ROOF SIDE RAILS
- (15) ROOF OR CONVERTIBLE TOP
- (16) BACKLIGHT HEADER
- (17) FRONT SEAT-BACK SURFACE/  
SEAT-BACK BACK SURFACE
- (18) SECOND SEAT-BACK SURFACE  
SEAT-BACK BACK SURFACE
- (19) THIRD SEAT-BACK SURFACE  
SEAT-BACK BACK SURFACE
- (20) FOURTH SEAT-BACK SURFACE  
SEAT-BACK BACK SURFACE
- (21) FIFTH SEAT-BACK SURFACE  
SEAT-BACK BACK SURFACE
- (22) BACK PANEL/BACK DOOR SURFACE
- (23) SEAT CUSHION SURFACE/EDGE
- (24) CONSOLE
- (25) OTHER (DESCRIBE)
- (26) UNKNOWN INTERNAL SURFACES
- (28) TRANSMISSION TUNNEL (HUMP)
- (29) SIDE FOOTWELL PANEL (KICKPANEL)
- (30) SILL

## EXTERNAL

- (43) HOOD
- (44) OBJECT EXTERNAL TO PASSENGER  
COMPARTMENT BUT PART  
OF CASE VEHICLE
- (45) OUTSIDE SURFACE OF CASE VEHICLE
- (46) OTHER (E.G. SPARE TIRE,  
JACK. DESCRIBE.)
- (49) UNKNOWN EXTERNAL OBJECT

## GROUPED FOR MASSIVE INTRUSION INTO AN OCCUPANT SPACE

USE ONLY IF ALL THESE COMPONENTS  
INTRUDED INTO A SINGLE OCCUPANT SPACE.

- |  |  |
|--|--|
| (50) WINDSHIELD HEADER<br>A-PILLAR<br>ROOF SIDE RAIL             | (60) ROOF<br>ROOF RAIL<br>A-PILLAR<br>B-PILLAR<br>C-PILLAR<br>WINDOW FRAME<br>DOOR PANEL<br>FLOOR PAN                |
| (51) INSTRUMENT PANEL<br>A-PILLAR<br>DOOR PANEL                  | (61) INSTRUMENT PANEL<br>TOE PAN<br>WINDSHIELD HEADER<br>A-PILLAR<br>ROOF RAIL<br>WINDOW FRAME<br>DOOR PANEL<br>ROOF |
| (52) INSTRUMENT PANEL<br>A-PILLAR<br>WINDSHIELD HEADER           | (62) ROOF<br>ROOF RAIL<br>C-PILLAR<br>WINDOW FRAME<br>FLOOR PAN<br>SECOND SEAT<br>DOOR PANEL                         |
| (53) DOOR PANEL<br>B-PILLAR<br>ROOF RAIL                         | (63) ROOF RAIL<br>ROOF<br>B-PILLAR<br>WINDOW FRAME<br>FLOOR PAN<br>DOOR PANEL<br>SECOND SEAT<br>FRONT SEAT           |
| (54) DOOR PANEL<br>A-PILLAR<br>ROOF RAIL                         | (64) ROOF RAIL<br>ROOF OR CONVERTIBLE TOP<br>A-PILLAR<br>B-PILLAR<br>WINDOW FRAME<br>WINDOW HEADER                   |
| (55) INSTRUMENT PANEL<br>FLOOR PAN<br>A-PILLAR<br>DOOR FRAME     | (65) WINDSHIELD<br>WINDSHIELD HEADER<br>ROOF SIDE RAIL   |
| (56) ROOF RAIL<br>A-PILLAR<br>B-PILLAR<br>WINDOW FRAME           | (66) WINDSHIELD<br>WINDSHIELD HEADER<br>A-PILLAR   |
| (57) ROOF RAIL<br>A-PILLAR<br>B-PILLAR<br>C-PILLAR<br>DOOR PANEL | (98) NOT APPLICABLE  |
| (58) ROOF<br>ROOF RAIL<br>WINDOW FRAME<br>DOOR PANEL             | (99) UNKNOWN   |
| (59) BACKLIGHT HEADER<br>ROOF<br>C-PILLAR<br>THIRD SEAT-BACK     |  |



Duplicate columns 1-8 from the previous card.		Module <u>1</u> <u>1</u> 9 10		Format <u>0</u> <u>1</u> 11 12		<b>INTRUSION IT-5</b>				
WAS THERE OCCUPANT COMPARTMENT INTRUSION? <u>1</u> 13						WAS INTRUSION CATASTROPHIC? <u>0</u> 14				
(0) NO <u>DO NOT ANSWER NEXT QUESTION. SKIP PAGE.</u> (1) YES <u>ANSWER NEXT QUESTION.</u> (9) UNKNOWN <u>SKIP PAGE.</u>						(0) NO <u>COMPLETE PAGE.</u> (1) YES <u>SKIP PAGE.</u>				
Duplicate columns 1-8 from the previous card.		Module <u>1</u> <u>1</u> 9 10		Format <u>0</u> <u>2</u> 11 12						
NOTE: Each line in the table below is a separate record (card). Duplicate columns 1 - 12 for each completed line.										
<b>INTRUSIONS CODE INTRUSIONS IN THIS ORDER: LEFT TO RIGHT ON ROW; FRONT TO BACK IN VEHICLES.</b> CODES FOR B, F, G, H, I, J ON PAGE IT-3 CODES FOR C ON PAGE IT-4										
							<u>OCCUPANT CONTACT AND INJURY</u>			
A	B	C	D	E	F	G	H	I	J	K
INTRUSION NUMBER	OCC. SPACE NO.	INTRUDING COMPONENT OR OBJECT	ASSOC. EVENT NO.	MAXIMUM INTRUSION X AXIS (cm)	MAXIMUM INTRUSION Y AXIS (cm)	MAXIMUM INTRUSION Z AXIS (cm)	OCCUPANT NUMBER	INJURY NUMBER	OCCUPANT NUMBER	INJURY NUMBER
13-14	15-16	17-18	19	20-21	22-23	24-25	26-27	28-29	30-31	32-33
<u>0 1</u>	<u>13</u>	<u>03</u>	<u>1</u>	<u>05</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>
<u>0 2</u>	---	---	---	---	---	---	---	---	---	---
<u>0 3</u>	---	---	---	---	---	---	---	---	---	---
<u>0 4</u>	---	---	---	---	---	---	---	---	---	---
<u>0 5</u>	---	---	---	---	---	---	---	---	---	---
<u>0 6</u>	---	---	---	---	---	---	---	---	---	---
<u>0 7</u>	---	---	---	---	---	---	---	---	---	---
NOTE: USE ADDITIONAL PAGE IF MORE THAN 7 INTRUSIONS.										
Duplicate columns 1-8 from the previous card.		Module <u>1</u> <u>1</u> 9 10		Format <u>0</u> <u>3</u> 11 12						
NOTE: IF NO SIDE DOOR INTRUSION, SKIP REMAINDER OF PAGE.						IF DAMAGE TO DOOR COMPONENT RESULTED IN INCREASED DOOR INTRUSION, CODE COMPONENT				
SIDE DOOR INTRUSION RESULTED FROM										
INTRUSION NUMBER	CAUSE	CODES FOR CAUSE:				INTRUSION NUMBER	DAMAGED COMPONENT 1	DAMAGED COMPONENT 2	CODES FOR COMPONENTS	
---	---	---				A	---	---	---	
13	15	(1) DIRECT IMPACT				22	23	---	25	(0) NONE
16	18	(2) INDUCED DAMAGE				B	---	---	29	(1) A-PILLAR
19	21	(9) UNKNOWN				C	---	---	33	(2) B-PILLAR
						30	31	---		(3) C-PILLAR
						D	---	---		(4) LATCH/STRIKER
						34	35	---		(5) HINGES
										(7) OTHER: _____
										(8) NOT APPLICABLE
										(9) UNKNOWN

Duplicate columns 1-8  
from the previous card.

Module 1 1 Format 0 2  
9 10 11 12

INTRUSION IT-6

NOTE: Each line in the table below is a separate record (card).  
Duplicate columns 1 - 12 for each completed line.

- ADDITIONAL PAGE -

**INTRUSIONS** CODE INTRUSIONS IN THIS ORDER: LEFT TO RIGHT ON ROW; FRONT TO BACK IN VEHICLES.  
CODES FOR B, F, G, H, I, J ON PAGE IT-3  
CODES FOR C ON PAGE IT-4

OCCUPANT CONTACT AND INJURY

A	B	C	D	E	F	G	H	I	J	K
INTRUSION NUMBER	OCC. SPACE NO.	INTRUDING COMPONENT OR OBJECT	ASSOC. EVENT NO.	MAXIMUM INTRUSION X AXIS (cm)	MAXIMUM INTRUSION Y AXIS (cm)	MAXIMUM INTRUSION Z AXIS (cm)	OCCUPANT NUMBER	INJURY NUMBER	OCCUPANT NUMBER	INJURY NUMBER
13-14	15-16	17-18	19	20-21	22-23	24-25	26-27	28-29	30-31	32-33
<u>0 8</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>0 9</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 0</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 1</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 2</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 3</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 4</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 5</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 6</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 7</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 8</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 9</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>2 0</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>2 1</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>2 2</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>2 3</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>2 4</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>2 5</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —

Duplicate columns 1-8 from the previous card.		Module <u>1</u> <u>D</u> Format <u>0</u> <u>1</u> 9 10 11 12		INTERIOR DAMAGE		ID-1
<b>CODES:</b> (0) NO (1) YES (3) NO, and OCCUPANT CONTACT (4) YES, and OCCUPANT CONTACT (8) NOT APPLICABLE (9) UNKNOWN						
<b>SIDES</b>	<b>LEFT</b>	<b>RIGHT</b>	<b>FRONT</b>		<b>INSTRUMENT PANEL</b>	
FRONT DOOR	13	14	FOOT CONTROLS	45	UPPER PANEL	55
FRONT HARDWARE	15	16	IGNITION KEYS	46	MID PANEL	56
FRONT ARMREST	17	18	REAR VIEW MIRROR	47	LOWER PANEL	57
FRONT GLASS	19	20	SUNVISOR/FITTINGS	48	ASHTRAY	58
REAR DOOR AREA	21	22	(5) LEFT SIDE ONLY (6) RIGHT SIDE ONLY (7) BOTH SIDES		CONTROL KNOBS & LEVERS	59
REAR HARDWARE	23	24	WINDSHIELD TOP MOLDINGS	49	GLOVE COMPARTMENT AREA	60
REAR ARMREST	25	26	LEFT A-PILLAR (UPPER OR LOWER)	50	INSTRUMENTS	61
REAR GLASS	27	28	RIGHT A-PILLAR (UPPER OR LOWER)	51	PARKING BRAKE RELEASE	62
ROOF SIDE RAIL	29	30	CENTER CONSOLE	52	PARKING BRAKE PEDAL	63
B-PILLAR	31	32	TRANSMISSION SELECTOR LEVER	53	A/C OR UPPER VENT OUTLETS	64
C-PILLAR	33	34	RIM, HORN, SPOKE	54	HEATER OR A/C DUCTS	65
D-PILLAR	35	36			RADIO	66
HEADLINING	37	38			OTHER: * _____	67
ROOF STRUCTURE	39	40				
T-ROOF/SUN ROOF	41	42				
OTHER: * _____	43	44				
					<b>REAR</b>	
					WINDOW	68
					WINDOW HEADER	69
					<b>CONSOLES</b>	
					VERTICAL	70
					ROOF	71

\* MORE THAN ONE ITEM MAY BE NOTED.

FRONT SEAT	DRIVER	PASSENR	FRONT SEAT-BACK	DRIVER	PASSENR
<b>TYPE OF FRONT SEAT</b> (00) NO SEAT (01) STANDARD BENCH (02) SPLIT BACK, 50-50 (03) SPLIT BACK, DRIVER WIDE (04) SPLIT BACK, PASS. WIDE (05) BUCKET (06) CAPTAIN'S CHAIR (07) INDIV. BENCH, 50-50 (08) INDIV. BENCH, DRIVER WIDE (09) INDIV. BENCH, PASS. WIDE (97) OTHER: _____ (99) UNKNOWN	<u>05</u> 13 14	<u>05</u> 15 16	<b>SEAT-BACK TYPE</b> (1) FORWARD FOLDING (2) RIGID (3) RECLINING (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN	<u>3</u> 30	<u>3</u> 31
<b>TYPE OF SEAT MOUNT</b> (1) STANDARD (2) PEDESTAL (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN	<u>1</u> 17	<u>1</u> 18	<b>SEAT-BACK LOCK TYPE</b> (0) NONE (1) MANUAL (2) INERTIA (3) POWER (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN	<u>1</u> 32	<u>1</u> 33
<b>SWIVEL MECHANISM EQUIPPED</b> (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN	<u>0</u> 19	<u>0</u> 20	<b>LOCKS HELD</b> (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN	<u>1</u> 34	<u>1</u> 35
<b>ORIGINAL EQUIPMENT SEATS</b> (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN	<u>1</u> 21	<u>1</u> 22	<b>RECLINER MECHANISM HELD</b> (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN	<u>1</u> 36	<u>1</u> 37
<b>CONTACT OF SEAT BY REAR OCCUPANT</b> (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN	<u>8</u> 23	<u>8</u> 24	<b>HEAD RESTRAINT</b> <b>HEAD RESTRAINT TYPE</b> (0) NONE (1) ADJUSTABLE (2) INTEGRAL (3) NOT INTEGRAL, BUT CANNOT BE REMOVED (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN	<u>2</u> 38	<u>2</u> 39
<b>FRONT SEAT DAMAGE</b> (0) NONE (1) BACKREST ONLY DAMAGED (2) CUSHION ONLY DAMAGED (3) BACKREST & CUSHION DAMAGED (8) NOT APPLICABLE (9) UNKNOWN	<u>0</u> 25	<u>0</u> 26	<b>REMOVED PRE-CRASH</b> (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN	<u>8</u> 40	<u>8</u> 41
<b>CENTER ARMREST DAMAGED</b> (0) NO (1) YES (7) EQUIPPED, DAMAGE UNKNOWN (8) NOT APPLICABLE (NO CENTER ARMREST) (9) UNKNOWN IF EQUIPPED	<u>8</u> 27		<b>ADJUSTMENT AT CRASH</b> (1) UP (2) DOWN (8) NOT APPLICABLE (9) UNKNOWN	<u>8</u> 42	<u>8</u> 43
<b>FRONT SEAT ROTATION</b> (0) NONE APPARENT (1) FORWARD APPARENT (2) REARWARD APPARENT (3) LEFT APPARENT (4) RIGHT APPARENT (5) MULTIPLE ROTATIONS SPECIFY _____ (8) NOT APPLICABLE (9) UNKNOWN	<u>0</u> 28	<u>0</u> 29	<b>HEAD RESTRAINT DAMAGE</b> (0) NONE (1) DAMAGED BUT NOT SEPARATED (2) SEPARATED (8) NOT APPLICABLE (9) UNKNOWN	<u>0</u> 44	<u>0</u> 45

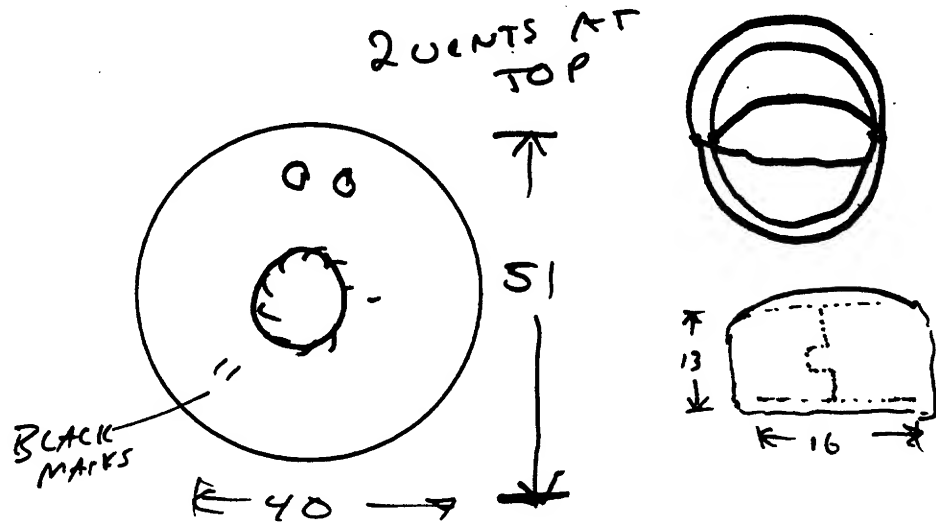
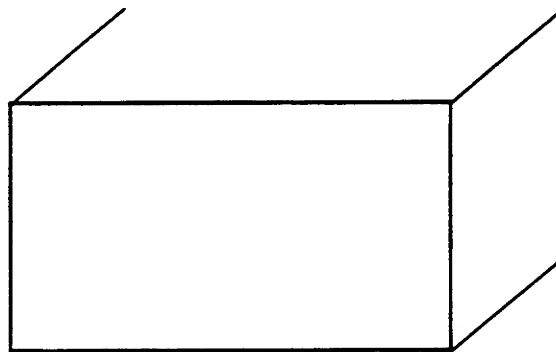
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from the previous card.Module A B Format 0 1  
9 10 11 12

AIRBAG AB-1

DRIVER SIDE		PASSENGER SIDE	
<b>LOCATION OF AIRBAG</b> <b>STEERING WHEEL</b> <b>EQUIPPED</b> (0) NO (1) YES (4) PRIOR DEPLOYMENT NOT REINSTALLED (9) UNKNOWN IF AIRBAG EQUIPPED  <b>DEPLOYED</b> (0) NO (1) YES (2) PARTIAL/IMPROPER DEPLOYMENT (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN	<div style="text-align: center;">/</div> <div style="text-align: center;">13</div>	<b>LOCATION OF AIRBAG</b> <b>INSTRUMENT PANEL (GLOVE BOX)</b> <b>EQUIPPED</b> (0) NO (1) YES (4) PRIOR DEPLOYMENT NOT REINSTALLED (9) UNKNOWN IF AIRBAG EQUIPPED  <b>DEPLOYED</b> (0) NO (1) YES (2) PARTIAL/IMPROPER DEPLOYMENT (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN	<div style="text-align: center;">/</div> <div style="text-align: center;">16</div>
<b>CONDITION OF AIRBAG</b> <b>STEERING WHEEL</b> (0) NO DAMAGE (2) SPLIT OR TORN (3) CUT DURING CRASH (4) BURNED/MELTED (5) CUT POST CRASH (6) OTHER _____ (7) DAMAGED, CONDITION UNKNOWN (8) NOT APPLICABLE (NOT EQUIPPED/NOT DEPLOYED) (9) UNKNOWN IF EQUIPPED OR CONDITION	<div style="text-align: center;">O</div> <div style="text-align: center;">15</div>	<b>CONDITION OF AIRBAG</b> <b>INSTRUMENT PANEL (GLOVE BOX)</b> (0) NO DAMAGE (2) SPLIT OR TORN (3) CUT DURING CRASH (4) BURNED/MELTED (5) CUT POST CRASH (6) OTHER _____ (7) DAMAGED, CONDITION UNKNOWN (8) NOT APPLICABLE (NOT EQUIPPED/NOT DEPLOYED) (9) UNKNOWN IF EQUIPPED OR CONDITION	<div style="text-align: center;">O</div> <div style="text-align: center;">18</div>
<b>DRIVER SIDE</b> <b>AIRBAG</b> <b>STEERING WHEEL</b> <b>TETHER</b> (0) NO (1) YES (6) OTHER _____ (7) UNKNOWN IF TETHERED (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN IF AIRBAG EQUIPPED  <b>MARKED BY CONTACT</b> (0) NO (1) YES (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN	<div style="text-align: center;">/</div> <div style="text-align: center;">19</div>	<b>PASSENGER SIDE</b> <b>AIRBAG</b> <b>INSTRUMENT PANEL (GLOVE BOX)</b> <b>TETHER</b> (0) NO (1) YES (6) OTHER _____ (7) UNKNOWN IF TETHERED (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN IF AIRBAG EQUIPPED  <b>MARKED BY CONTACT</b> (0) NO (1) YES (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN	<div style="text-align: center;">O</div> <div style="text-align: center;">21</div>
<b>DRIVER SIDE</b> <b>AIRBAG</b> <b>STEERING WHEEL</b> <b>TETHER</b> (0) NO (1) YES (6) OTHER _____ (7) UNKNOWN IF TETHERED (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN IF AIRBAG EQUIPPED  <b>MARKED BY CONTACT</b> (0) NO (1) YES (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN	<div style="text-align: center;">/</div> <div style="text-align: center;">20</div>	<b>PASSENGER SIDE</b> <b>AIRBAG</b> <b>INSTRUMENT PANEL (GLOVE BOX)</b> <b>TETHER</b> (0) NO (1) YES (6) OTHER _____ (7) UNKNOWN IF TETHERED (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN IF AIRBAG EQUIPPED  <b>MARKED BY CONTACT</b> (0) NO (1) YES (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN	<div style="text-align: center;">O</div> <div style="text-align: center;">22</div>

AIRBAG AB-2

AIRBAG NUMBER ON DRIVER SIDE: *NO # FOUND*NOTE AND DESCRIBE ANY AIRBAG CONTACT OR  
DAMAGE ON DIAGRAM BELOW:AIRBAG NUMBER ON PASSENGER SIDE: *NO # FOUND*NOTE AND DESCRIBE ANY AIRBAG CONTACT OR  
DAMAGE ON DIAGRAM BELOW:

NOTE TO THE INVESTIGATOR:

THE FOLLOWING TWO SECTIONS,  
OCCUPANT INFORMATION AND INJURY CLASSIFICATION,  
ARE TO BE FILLED IN  
FOR EACH CASE VEHICLE OCCUPANT,  
WHETHER INJURED OR NOT.

IF THERE IS MORE THAN ONE OCCUPANT,  
USE ADDITIONAL COPIES  
OF PAGES OC-1, OC-2, OC-3,  
AND IC-2 TO DESCRIBE THEM  
AND ATTACH THE COPIES TO THIS REPORT.



Duplicate columns 1-8 from the previous card.		Module <u>0</u> <u>0</u> Format <u>0</u> <u>2</u> 9 10 11 12		OCCUPANT INFORMATION OC-1			
<b>OCCUPANT IDENTIFICATION</b>  OCCUPANT NUMBER <u>01</u> 13 14  ROLE OF OCCUPANT AT 1ST IMPACT  (1) MOTOR VEHICLE DRIVER (2) MOTOR VEHICLE PASSENGER (NOT DRIVER) (9) UNKNOWN		<b>PHYSICAL DESCRIPTION</b>  AGE IN YEARS (00) LESS THAN 1 YEAR (98) 98 YEARS OR OLDER (99) UNKNOWN <u>18</u> 20 21  AGE IN MONTHS (00) LESS THAN 1 MONTH (25) 25 MONTHS OR OLDER (99) UNKNOWN <u>25</u> 22 23  MASS (kg) (999) UNKNOWN <u>108 LB</u> <u>049</u> 24 25 26  HEIGHT (cm) (999) UNKNOWN <u>5'4"</u> <u>163</u> 27 28 29  SEX (1) MALE (2) FEMALE (9) UNKNOWN <u>2</u> 30					
<b>OCCUPANT POSITION</b>  ROW LOCATION (1) FRONT (2) SECOND (3) THIRD (4) FOURTH (7) OTHER: _____ (8) EXTERNAL TO PASSENGER COMPARTMENT (E.G. BED OF PICKUP) (9) UNKNOWN		<u>1</u> 16		<b>MEDICAL CONDITIONS</b>  TREATMENT/MORTALITY (00) NONE (01) FIRST AID AT SCENE (02) TREATED AT HOSPITAL/CLINIC BUT NOT ADMITTED (03) HOSPITALIZED FOR OBSERVATION LESS THAN 24 HOURS (04) HOSPITALIZED OVER 24 HOURS OR FOR SIGNIFICANT TREATMENT (05) FATAL, DEAD AT SCENE (06) FATAL, DOA (07) FATAL, DEAD WITHIN 24 HOURS (08) FATAL, DEAD 24 HOURS TO 31 DAYS LATER (09) FATAL, DEAD 31 DAYS TO 1 YEAR LATER (10) FATAL DEAD WITHIN UNKNOWN PERIOD (99) UNKNOWN  INJURY SEVERITY SCORE (ISS) (99) UNKNOWN <u>02</u> 33 34  NON-IMPACT MED. CONDITIONS (0) NONE (1) YES, TIME & TYPE UNKNOWN (2) PRE-CRASH FATAL (CLINICAL DEATH AT WHEEL) (3) PRE-CRASH NON-FATAL (E.G. PRIOR INJURY, STROKE) (4) PREGNANT (5) POST-CRASH FATAL (DROWNING) (6) POST-CRASH NON-FATAL INJURY (7) OTHER: _____ (8) COMBINATION OF ABOVE (CIRCLE EACH) (9) UNKNOWN			
<b>LATERAL LOCATION</b> (1) LEFT (2) LEFT CENTER (3) CENTER (4) RIGHT CENTER (5) RIGHT (6) ALL (LYING ON SEAT) (8) EXTERNAL TO PASSENGER COMPARTMENT (9) UNKNOWN		<u>1</u> 17		<b>POSTURE</b> (10) SITTING ON SEAT (11) SITTING ON SEAT IN ABNORMAL POSITION (E.G. FEET ON DASH, SIDEWAYS) (12) SITTING ON CONSOLE (20) ON LAP OR IN ARMS (30) STANDING ON SEAT (40) STANDING ON FLOOR (47) STANDING, EXTERNAL TO PASSENGER COMPARTMENT (50) IN BASSINET (60) IN CHILD SEAT (65) IN CHILD HARNESS (70) LYING ON SEAT (80) LYING/SITTING ON PASSENGER FLOOR (83) LYING/SITTING ON OTHER OBJECT IN PASSENGER COMPARTMENT: (85) ON CARGO FLOOR/FOLDED SEAT-BACK (87) LYING/SITTING, EXTERNAL TO PASSENGER COMPARTMENT (97) OTHER: _____ (99) UNKNOWN		<u>10</u> 18 19	

<b>MEDICAL CONDITIONS (CONT.)</b>  <b>POLICE INJURY SEVERITY CODE FOR THIS OCCUPANT</b>  (0) O - NO INJURY (1) C - POSSIBLE INJURY (2) B - NON-INCAPACITATING (3) A - INCAPACITATING INJURY (4) K - FATAL (5) INJURED, SEVERITY UNKNOWN (6) DIED PRIOR TO IMPACT (7) NON-FATAL INJURY, SEVERITY UNKNOWN (9) UNKNOWN	<u>1</u> 36	<b>CHILD SEAT TYPE</b>  (00) NONE USED (01) YES, USED (02) INTEGRAL, Chrysler Mini-van (88) NOT APPLICABLE (ADULT OR OLDER CHILD) (99) UNKNOWN  <b>CHILD SEAT MAKE/MODEL</b>  _____ _____ _____	<u>88</u> 41 42
<b>RESTRAINT SYSTEM</b>  <b>ACTIVE RESTRAINT SYSTEM</b>  (0) NONE (1) LAP BELT (2) SHOULDER HARNESS ONLY (3) BOTH LAP BELT & SHOULDER HARNESS (9) UNKNOWN  <b>ACTIVE RESTRAINT SYSTEM USAGE</b>  (0) NONE (AVAILABLE BUT NOT USED) (1) LAP BELT ONLY (2) SHOULDER HARNESS ONLY (3) BOTH LAP BELT & SHOULDER HARNESS (7) IMPROPER USAGE (8) NOT APPLICABLE (NONE AVAILABLE) (9) UNKNOWN  <b>PASSIVE RESTRAINT SYSTEM</b>  (0) NONE (1) AIRBAG INSTALLED (2) PASSIVE UPPER TORSO WITH KNEE BOLSTERS (3) PASSIVE UPPER TORSO WITHOUT KNEE BOLSTERS (4) PASSIVE LAP & UPPER TORSO (5) AIRBAG INSTALLED & PASSIVE RESTRAINT (7) OTHER: _____ (9) UNKNOWN  <b>PASSIVE RESTRAINT SYSTEM USAGE</b>  (0) SYSTEM DEFEATED (1) AIRBAG NOT DEPLOYED (2) AIRBAG DEPLOYED (3) AIRBAG NOT REINSTALLED (4) PASSIVE UPPER TORSO USED (5) PASSIVE LAP & UPPER TORSO USED (6) SYSTEM USED IN MANUAL MODE (7) IMPROPER USAGE (8) NOT APPLICABLE (NOT ORIGINALLY EQUIPPED) (9) UNKNOWN	<u>3</u> 37  <u>3</u> 38  <u>1</u> 39  <u>2</u> 40	<b>EJECTION</b>  <b>DEGREE OF EJECTION</b>  (0) NONE (1) PARTIAL (2) COMPLETE (7) EJECTED, DEGREE UNKNOWN (9) UNKNOWN IF EJECTED  <b>AREA OF EJECTION</b>  (01) WINDOW, LEFT SIDE (02) WINDOW, RIGHT SIDE (03) WINDOW, REAR (04) DOOR, LEFT SIDE (05) DOOR, RIGHT SIDE (06) DOOR, REAR OR TAILGATE (07) WINDSHIELD (08) ROOF OR OPEN CONVERTIBLE OR FROM EXTERNAL AREA (96) EJECTED AREA UNKNOWN (97) OTHER AREA: _____ (98) NOT APPLICABLE (NOT EJECTED) (99) UNKNOWN IF EJECTED  <b>IF OCCUPANT WAS EJECTED, DESCRIBE IN DETAIL BELOW:</b>  _____ _____ _____ _____	<u>0</u> 43  <u>98</u> 44 45
		<b>HEAD RESTRAINT</b>  <b>HEAD RESTRAINT AVAILABLE FOR THIS POSITION</b>  (0) NOT EQUIPPED OR REMOVED (1) EQUIPPED (9) UNKNOWN	<u>1</u> 46

## OCCUPANT INFORMATION OC-3

## OCCUPANT EYEWEAR

- (0) NONE
- (1) GLASSES
- (2) CONTACTS
- (3) BOTH GLASSES AND CONTACTS
- (4) OTHER \_\_\_\_\_
- (8) NOT APPLICABLE
- (9) UNKNOWN

1  
47

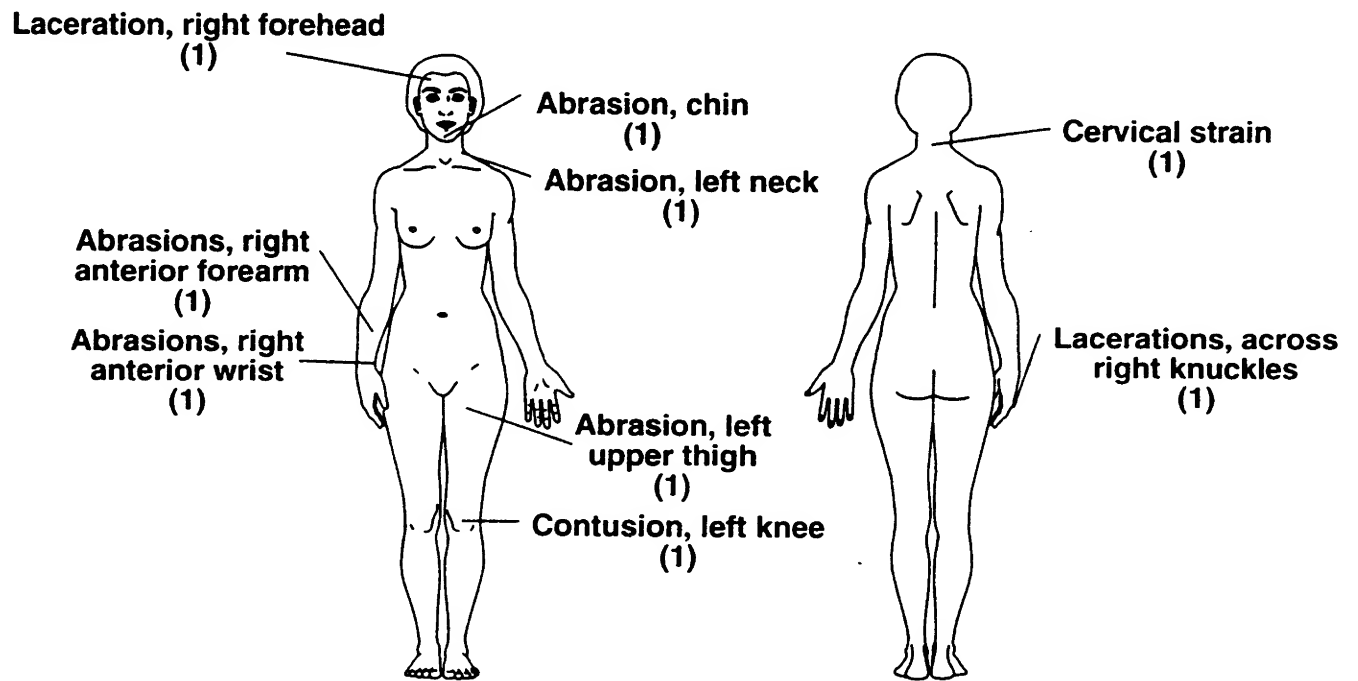
SUNGLASSES  
FLEW OFF  
& DAMAGED

## SOURCE OF INFORMATION

- (0) INTERVIEW
- (1) HOSPITAL
- (2) AUTOPSY
- (3) POLICE
- (4) OTHER \_\_\_\_\_
- (5) LAY CORONER/EXTERNAL EXAM
- (7) COMBINATION OF ABOVE (CIRCLE)
- (8) NOT APPLICABLE
- (9) UNKNOWN

0  
48

INDICATE LOCATION OF INJURIES.





## CODES FOR AREAS OF POSSIBLE OCCUPANT CONTACT

## FRONT OF PASSENGER COMPARTMENT

- (10) SUNVISOR, FITTING(S) &/OR TOP MOLDING
- (12) WINDSHIELD
- (05) INSTRUMENT PANEL (*SPECIFIC AREA UNKNOWN*)
- (54) UPPER INSTRUMENT PANEL (X)
- (55) MIDDLE INSTRUMENT PANEL (Y)
- (56) LOWER INSTRUMENT PANEL (Z)
- (81) ASH TRAY (*INSTRUMENT PANEL*)
- (02) GLOVE COMPARTMENT AREA
- (47) AIRBAG (ACRS) COMPARTMENT DOOR/COVER
- (57) BENEATH INSTRUMENT PANEL
- (53) PARCEL TRAY
- (48) KNEE RESTRAINT
- (86) VERTICAL CONSOLE
- (28) FOOT CONTROLS (*INCL. PARKING BRAKE PEDAL*)
- (09) STEERING ASSEMBLY (*SPECIFIC AREA UNKNOWN*)
- (65) STEERING WHEEL
- (66) STEERING WHEEL COLUMN
- (59) TRANSMISSION LEVER ON COLUMN
- (03) HARDWARE ITEM (*SPECIFIC AREA UNKNOWN*)
- (82) INSTRUMENT(S)
- (83) CONTROL KNOB(S) & LEVER(S) (*FRONT*)
- (84) PARKING BRAKE HANDLE IN FRONT
- (67) IGNITION KEY
- (06) MIRROR
- (04) - HEATER OR AIR CONDITIONING DUCTS
- (01) AIR CONDITIONING OR VENTILATION OUTLET(S)
- (08) RADIO (*BUILT IN*)
- (58) ADD-ON TAPE DECK, RADIO, A/C
- (68) ROOF MOUNTED CONTROLS/CONSOLES

## REAR

- (88) SURFACE OF REAR INTERIOR
- (23) REAR WINDOW
- (39) REAR WINDOW HEADER
- (50) REAR SEAT CUSHION & BACK

## INTERIOR-GENERAL

- (11) TRANSMISSION SELECTION LEVER (*LOCATION UNK.*)
- (59) TRANSMISSION LEVER ON STEERING COLUMN
- (44) TRANSMISSION LEVER ON FLOOR OR CONSOLE
- (07) PARKING BRAKE HANDLE (*LOCATION UNKNOWN*)
- (84) PARKING BRAKE HANDLE IN FRONT
- (85) PARKING BRAKE HANDLE ON FLOOR OR CONSOLE
- (28) FOOT CONTROLS (*INCL. PARKING BRAKE PEDAL*)
- (29) FRONT SEAT-BACK(S)
- (51) FRONT SEAT CUSHION
- (50) REAR SEAT CUSHION & BACK
- (49) ARMREST ON SEAT
- (89) UNDER SEAT BOTTOM
- (33) RESTRAINT SYSTEM HARDWARE
- (34) RESTRAINT SYSTEM WEBBING
- (87) AIR CUSHION SKIN (*AIRBAG*)
- (47) AIRBAG (ACRS) COMPARTMENT DOOR/COVER
- (46) AIRBAG GAS
- (48) KNEE RESTRAINT
- (30) HEAD RESTRAINT
- (42) CHILD SEAT RESTRAINTS
- (43) CHILD SEAT
- (31) INTERIOR LOOSE OBJECT
- (32) OTHER OCCUPANT(S)
- (52) INTERNAL FLYING GLASS (*FROM ANY SOURCE*)
- (41) UNKNOWN INTERIOR SURFACE

## SIDES

- (20) SURFACE OF SIDE INTERIOR
- (19) HARDWARE ON SIDE OR DOOR
- (13) ARMREST ON SIDE OR DOOR
- (24) COAT HOOK
- (22) WINDOW GLASS (*SIDE*)
- (21) WINDOW FRAMES (*SIDE*)
- (26) ROOF SIDE RAIL
- (14) A-PILLAR
- (15) B-PILLAR
- (16) C-PILLAR
- (17) D-PILLAR

## FLOOR

- (40) FLOOR
- (27) CONSOLE ON FLOOR OR BETWEEN SEATS
- (44) TRANSMISSION LEVER ON FLOOR OR CONSOLE
- (85) PARKING BRAKE HANDLE ON FLOOR OR CONSOLE
- (28) FOOT CONTROLS (*INCL. PARKING BRAKE PEDAL*)
- (91) KICKPANEL

## ROOF

- (25) ROOF OR CONVERTIBLE TOP
- (10) SUNVISOR, FITTING(S) &/OR TOP MOLDING
- (26) ROOF SIDE RAIL
- (24) COAT HOOK
- (18) DOME LIGHT
- (39) BACKLIGHT HEADER
- (68) ROOF MOUNTED CONTROLS/CONSOLE
- (69) ROLL BAR

## EXTERIOR SURFACE OF CASE VEHICLE

- (37) OUTSIDE SURFACE OF CASE VEHICLE (*SPECIFIC AREA UNKNOWN*)
- (35) HOOD OF CASE VEHICLE
- (60) EXTERIOR OF CASE VEHICLE (E.G. *OUTSIDE MIRRORS, ANTENNA, TRIM*)
- (62) EXTERIOR SIDE ROOF RAIL OF CASE VEHICLE
- (63) TRUNK LID OF CASE VEHICLE
- (64) TIRES OF CASE VEHICLE

## BEYOND CASE VEHICLE BOUNDARY

- (36) AREA EXTERIOR TO CAR (*SPECIFIC AREA UNK.*)
- (70) HOOD OF OTHER VEHICLE
- (71) OTHER VEHICLE EXTERIOR HARDWARE (E.G. *OUTSIDE MIRRORS, ANTENNA, TRIM*)
- (73) EXTERIOR SIDE ROOF RAIL OF OTHER VEHICLE
- (74) HEADLIGHT OR FRONT GRILL OF OTHER VEH.
- (75) TRUNK OF OTHER VEHICLE
- (76) OUTSIDE SURFACE OF OTHER VEHICLE
- (77) TIRES OF OTHER VEHICLE
- (78) GROUND
- (79) WATER
- (80) EXTERIOR OBJECT (*NOT VEHICLE, GROUND, OR WATER. PLEASE DESCRIBE.*)

## PENETRATING OBJECTS

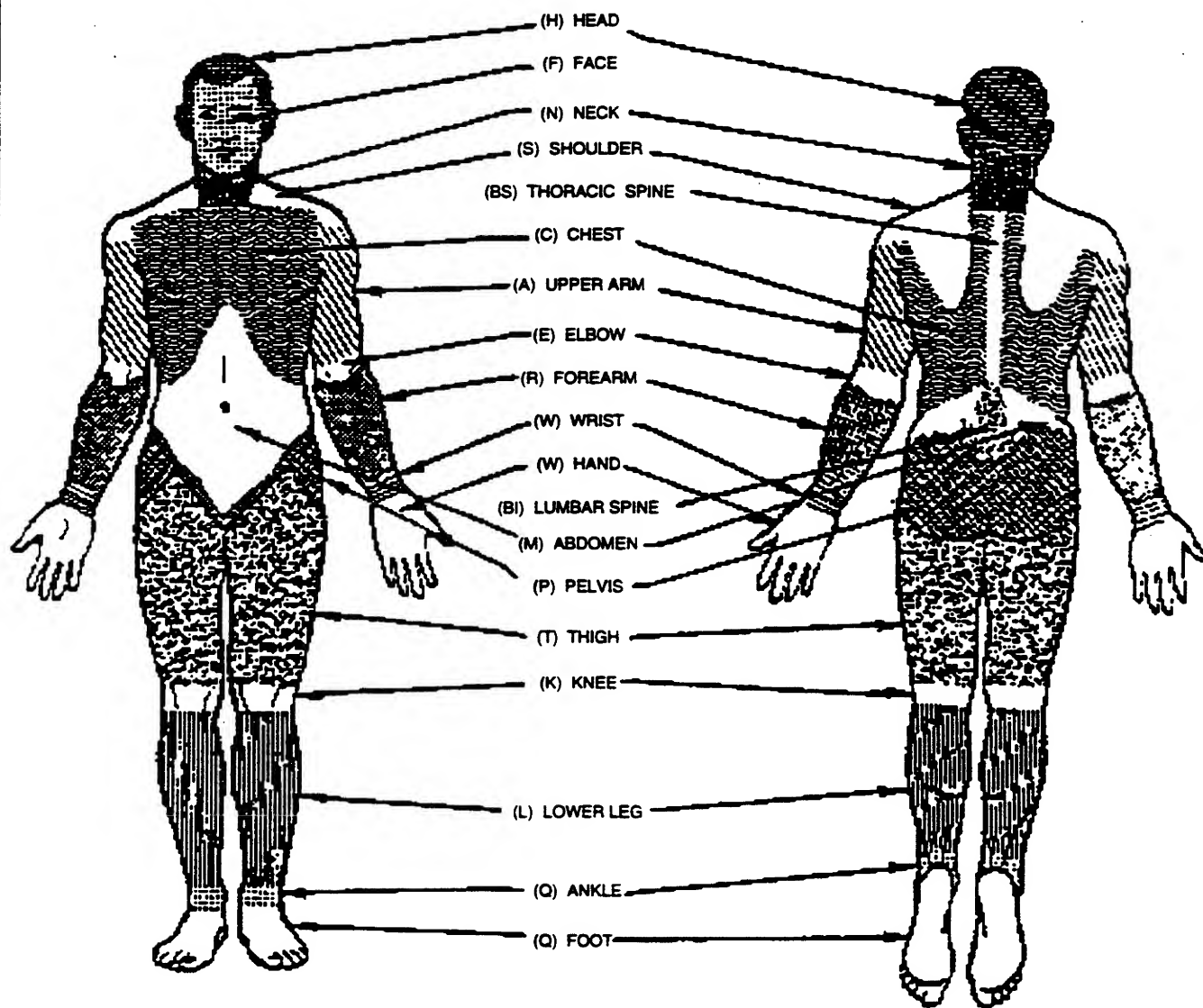
- (61) OTHER VEHICLE
- (72) OBJECTS (*DESCRIBE*)

## MISCELLANEOUS

- (00) NO CONTACT (*INVALID FIELD FORM CODE*)
- (38) OTHER (E.G. *FIRE. DESCRIBE*)
- (90) SPARE TIRE
- (96) INDUCED
- (97) EJECTED, UNKNOWN CONTACT
- (98) IMPACT FORCE, "WHIPLASH", HYPEREXTENSION/COMPRESSION
- (99) UNKNOWN AREA OF CONTACT

## INJURY CLASSIFICATION IC-3

THE FIGURE BELOW  
IS AN EXPLANATION OF THE BODY REGION CODES  
LISTED ON PAGE IC - 4.



## INJURY CLASSIFICATION IC-4

## CODES FOR OCCUPANT INJURY CLASSIFICATION (OIC)

**1 BODY REGION**

(H) HEAD/SKULL  
 (F) FACE  
 (N) NECK  
 (S) SHOULDER  
 (X) UPPER EXTREMITIES  
 (A) ARM (*UPPER*)  
 (E) ELBOW  
 (R) FOREARM  
 (W) WRIST/HAND  
 (C) CHEST  
 (M) ABDOMEN  
 (B) BACK  
 (P) PELVIC/HIP  
 (Y) LOWER EXTREMITIES  
 (T) THIGH  
 (K) KNEE  
 (L) LEG (*LOWER*)  
 (Q) ANKLE/FOOT  
 (O) WHOLE BODY  
 (U) UNKNOWN

**3 LESION**

(L) LACERATION  
 (C) CONTUSION  
 (A) ABRASION  
 (F) FRACTURE  
 (P) PERFORATION, PUNCTURE  
 (K) CONCUSSION  
 (V) AVULSION  
 (R) RUPTURE  
 (S) SPRAIN  
 (D) DISLOCATION  
 (N) CRUSH  
 (M) AMPUTATION  
 (B) BURN  
 (G) DETACHMENT, SEPARATION  
 (Z) FRACTURE AND DISLOCATION  
 (T) STRAIN  
 (E) TOTAL SEVERANCE, TRANSECTION  
 (O) OTHER  
 (U) UNKNOWN

**4 SYSTEM/ORGAN**

(S) SKELETAL  
 (V) VERTEBRAE  
 (J) JOINTS  
 (D) DIGESTIVE  
 (L) LIVER  
 (N) NERVOUS SYSTEM  
 (B) BRAIN  
 (C) SPINAL CORD  
 (E) EARS  
 (O) EYES  
 (A) ARTERIES  
 (H) HEART  
 (Q) SPLEEN  
 (G) UROGENITAL  
 (K) KIDNEYS  
 (R) RESPIRATORY  
 (P) PULMONARY/LUNGS  
 (M) MUSCLES  
 (T) THYROID, OTHER ENDOCRINE GLAND  
 (I) INTEGUMENTARY (*SKIN*)  
 (W) ALL SYSTEMS IN REGION  
 (U) UNKNOWN

**2 ASPECT**

(R) RIGHT  
 (L) LEFT  
 (B) BILATERAL  
 (C) CENTRAL  
 (A) ANTERIOR/FRONT  
 (P) POSTERIOR/BACK  
 (S) SUPERIOR/UPPER  
 (I) INFERIOR/LOWER  
 (W) WHOLE REGION  
 (U) UNKNOWN

BODY REGION	ASPECT	LESION	SYSTEM/ORGAN	SEVERITY
1	2	3	4	5

**5 SEVERITY (OR "AIS", ABBREVIATED INJURY SCALE)**

(0) NONE  
 (1) MINOR  
 (2) MODERATE  
 (3) SERIOUS  
 (4) SEVERE  
 (5) CRITICAL  
 (6) MAXIMUM  
 (9) UNKNOWN







PN 3721-98 #2



PN3721-98 #3





PN3721-88 #5  
Best Available



PN 3721-98 #6  
Best Available



PN3721-98 #7



**PN3721-98 #8**  
**Best Available**





PN3721-98 #9



PN 3721-98 #10



PN3721-98 #11  
Best Available



PN3721-98 #12



PN3721-88 #13



PN3721-98 #14



PN3721-98 #15



PN3721-98 #16





**PN3721-98 #17**  
**Best Available**



PN3721-98 #18



PN 3721-98 #19



PN 3721-98 #20



PN3721-98 #21



PN3721-98 #22



PN 3721-98 #23



PN3721-08 #24







PN 3721-98 #26



PN 3721-98 #27



PN3721-98 #28



PN 3721-98 #29



PN 3721-98 #30



PN 3721-98 #31







PN3721-98 #33



PN 3721-98 #34

PN 3721-98

1988 Saturn

SL 4 door sedan

1988 Saturn SL 4 door sedan

1988 Saturn SL 4 door sedan

1988 Saturn SL 4 door sedan

1988 Saturn SL 4 door sedan

Exterior, right forehead  
(1)

Exterior, left  
(1)

Exterior, right  
(1)

Exterior, left neck  
(1)

Exterior, right  
anterior shoulder  
(1)

Exterior, right  
anterior wrist  
(1)

Exterior, left  
upper thigh  
(1)

Exterior, left knee  
(1)

Exterior, across  
right shoulder  
(1)